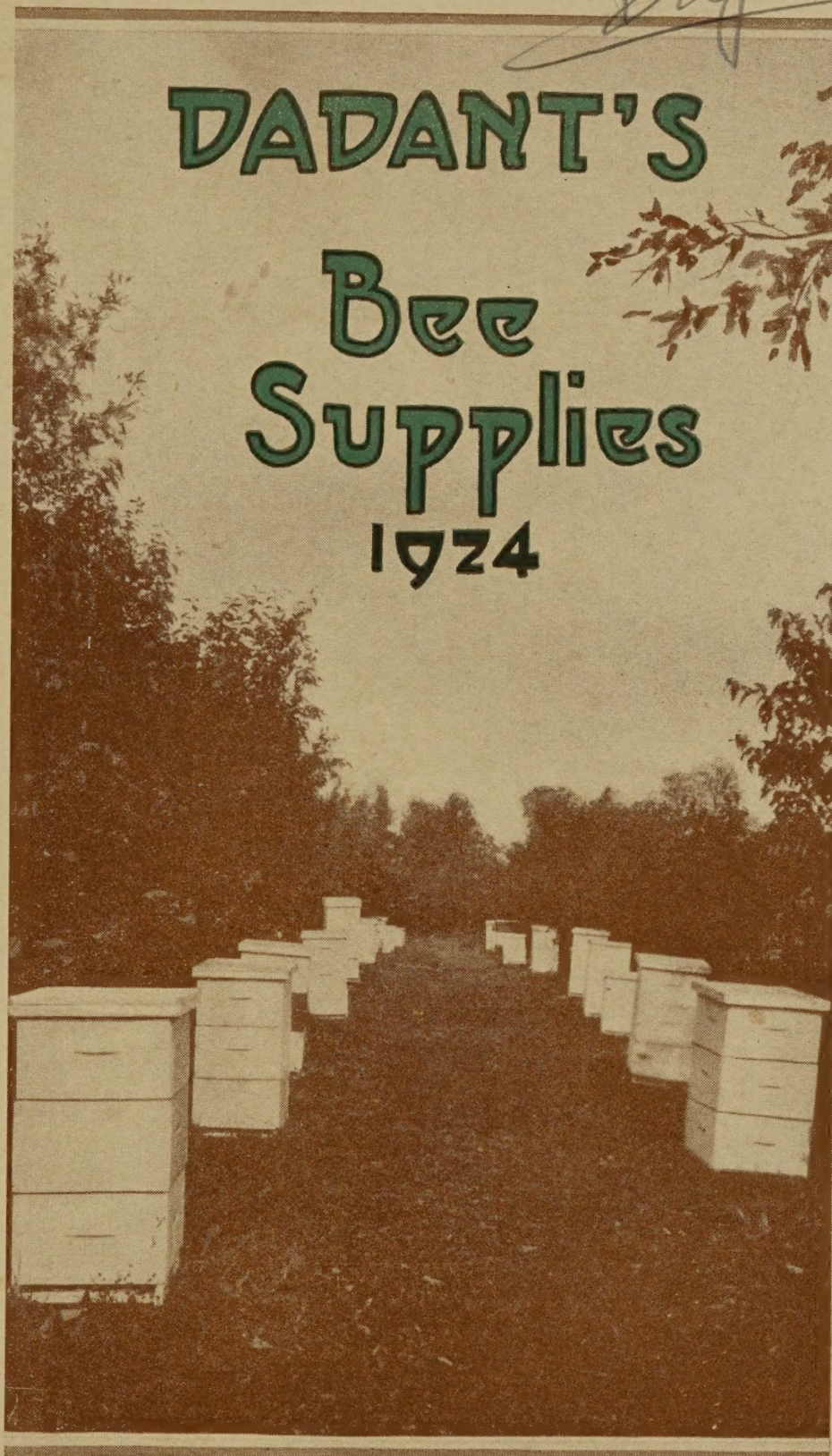


DADANT'S WIRED FOUNDATION

Dup

DADANT'S

Bee
Supplies
1924



DADANT & SONS

Hamilton, Illinois



Your Problems and ours are Common Can we help you?

The daily mail at Dadant and Sons is a source of much of the pleasure we get from beekeeping. Genial letters, puzzling questions—breaths of friendship from others who find in beekeeping a likeable occupation.

We enjoy helping in these mutual problems, too, and, since we have been large beekeepers for three generations, we can often give quick advice from our experience. If we can't advise, a broad association with beekeepers makes it possible to seek the experience of others who know. We invite you to join the family circle.

Oftentimes, a brief and practical explanation of beekeeping practices is of great help, especially to those of limited experience.

The series of "How" booklets, shown above, offer just this sort of aid and were printed for distribution to honey producers. The information is exceptionally authentic. Any two of these booklets will be gladly sent, free of charge, to any address. For more than two, a nominal charge of five cents each will be made.

- | | |
|---------------------------------|------------------------------------|
| How to Unite Bees. | How to Locate an Apiary. |
| How to Winter Bees Outdoors. | How to Feed Bees. |
| How to Use Comb Foundation. | How to Transfer Bees. |
| How to Care for Package Bees. | How to Care for Nuclei. |
| How to Extract Wax from Combs. | How to Organize Beekeepers. |
| How to Use an Observation Hive. | How to Make Increase. |
| How to Control Wax Worms. | How to Produce Extracted Honey. |
| How to Manage Bees in Spring. | How to Produce Section Comb Honey. |
| How to Control Swarming Bees. | How to Remove Bees from Trees. |
| How to Buy Queen Bees. | How to manage Bees in Fall. |
| How to Start Beekeeping. | |

OUR GUARANTEE

We guarantee all the goods we manufacture or handle to be exactly as represented in our catalog and we guarantee satisfaction in every way. If goods are not exactly as represented and first class, we do not ask you to keep them. Notify us of the trouble and we will give you instructions to return such goods at our expense and we will refund your money, including any transportation charges you may have paid. This guarantee covers everything in the bee supply line in this catalog.

**Freight, Mail
or Express**

To Name.

Postoffice.

R. F. D. No.

Shipping Point.

Name of R. R.

County.

Parcel Post Zone Number

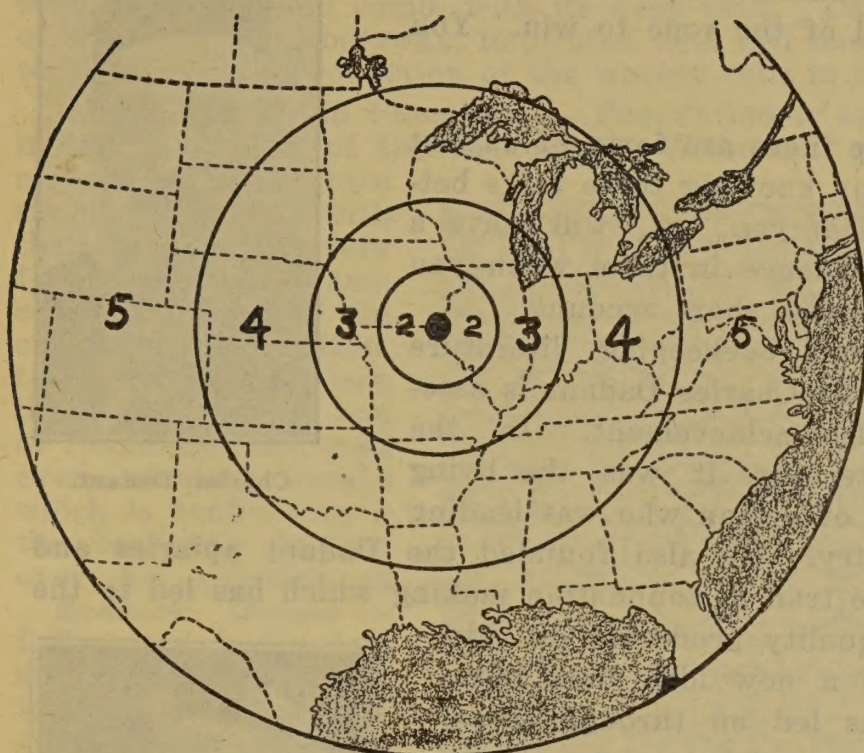
State

Total Amount Sent, \$[illegible]

NOTE: In order to avoid delay be sure to give size and style of hive for which goods are wanted. Whether 8 frame or 10 frame and whether Dometailed or some other kind.

[illegible]

Shipping Information



Parcels Post Zone Map.

WEIGHT	1st and 2d zones, 150 miles	3rd zone 150 to 300 miles	4th zone 300 to 600 miles	5th zone 600 to 1000 miles
	Rate	Rate	Rate	Rate
1 pound -----	\$0.05	\$0.06	\$0.07	\$0.08
2 pounds -----	.06	.08	.11	.14
3 pounds -----	.07	.10	.15	.20
4 pounds -----	.08	.12	.19	.26
5 pounds -----	.09	.14	.23	.32
6 pounds -----	.10	.16	.27	.38
7 pounds -----	.11	.18	.31	.44
8 pounds -----	.12	.20	.35	.50
9 pounds -----	.13	.22	.39	.56
10 pounds -----	.14	.24	.43	.62
11 pounds -----	.15	.26	.47	.68
12 pounds -----	.16	.28	.51	.74
13 pounds -----	.17	.30	.55	.80
14 pounds -----	.18	.32	.59	.86
15 pounds -----	.19	.34	.63	.92
16 pounds -----	.20	.36	.67	.98
17 pounds -----	.21	.38	.71	1.04
18 pounds -----	.22	.40	.75	1.10
19 pounds -----	.23	.42	.79	1.16
20 pounds -----	.24	.44	.83	1.22

In the first and second zones the weight limit is 75 pounds. In third to seventh zones, 50 pounds. For each additional pound over 20 pounds add 1c, 2c, 4c, 6c, according to the zone.

PARCELS POST AND GENERAL INFORMATION—In figuring parcels post use the zone map and the mailing rates given in the table. Several articles may be wrapped together to save postage. We will gladly refund any extra amount.

We are well equipped to handle parcels post shipments without extra charge, having special cartons to eliminate breakage or damage.

Small Packages—Articles weighing less than four ounces are mailed at one cent per ounce. For heavier parcels, the regular post rates apply.

Insured Parcel Post—The cost of insuring a parcel post shipment is very small, 3c for a shipment valued at \$5.00 or less, 5c for \$10.00 or less, 10c for \$25.00 or less, and 25c for \$100.00 or less, in addition to the postage. We insure all parcel post shipments. **Be sure to include insurance with your remittance.**

Limit of Size—This is now 84 inches, to be determined by measuring length and adding circumference of package. Often, however, larger packages go cheaper by freight.

If you are in doubt about mailing rates ask your Post Master for advice.

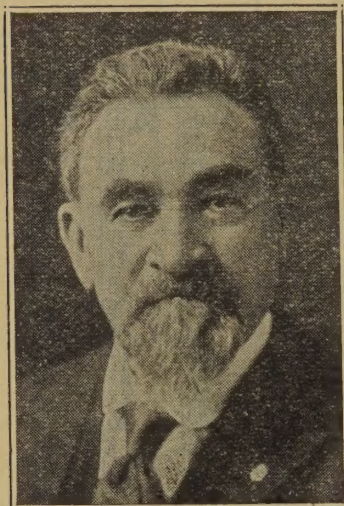
C. O. D. Shipments—No C. O. D. shipments will be made unless one-third value of goods is sent with order. C. O. D. parcels post shipments can be made only to a money order postoffice. On payment of a fee of ten cents, in addition to postage, we can ship goods so that the amount due will be collected on delivery at your postoffice. This fee also covers insurance against loss up to an actual value of \$50. We urge you, however, to send cash with order, as there is less delay when goods are thus ordered. No C. O. D. shipments will be made to points outside the United States.

How to Send Money—We prefer postoffice money orders, express money orders or bank drafts. Checks and cash by registered mail will be accepted. **Write your name plainly** on the outside of the envelope, with postoffice, county and state, so there will be no danger of your letter being lost. If you are on a rural route always give your number to avoid difficulty in making up your order. Care in following these instructions will insure prompt shipments.

For Acquaintance Sake

To get this page into your catalog was a man-size job. Not one of the folks you see here wanted it in, but the rest of us tugged hard enough on our end of the rope to win. You may thank us, therefore.

It was an unfair advantage, since there are forty of us, but we are confident that you will enjoy knowing these folks better and that you, too, will have a fuller confidence in them when you have read this short account.



C. P. Dadant.

Charles Dadant died in 1902, and it was C. P. Dadant's inherited task to maintain his father's reputation and to continue his good work. So well has he acquitted himself that the two men could well exchange places without loss to either. The forty of us are sure of his place in history.

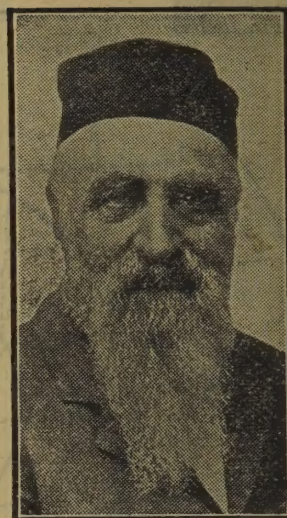


Henry.

predicted by his present success we can well afford to keep bees a few years more.

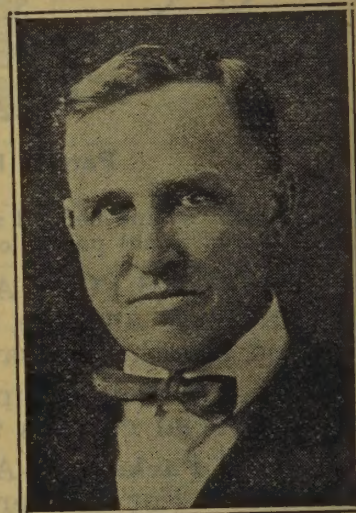
Maurice is the youngest of the family and a "whale for work." His driving energy reminds one of Atlas. He helps support the world for the forty of us and is our business "go getter." When you order supplies look out for him. He is between every line you read.

—By G. H. Cale.



Charles Dadant.

In today's beekeeping literature the name of Charles Dadant is associated with achievement. In the earlier literature it was the living signature of a man who was leading his industry. He also founded the Dadant apiaries and blazed the trail in foundation making which has led to the present quality product. In his workshop a new ideal was born which has led on through three generations and has grown steadily for fifty years.



Louis.

Louis, the oldest son, is an optimist who always sees the sugar on the doughnut and not the hole.

When you send an order Louis starts it to you right and generally tells the forty of us just how to send it to you to the best advantage.

Henry is the most practical dreamer I ever knew. Wired Foundation is a victory of his. The world needs many men like Henry, and if his future genius is



Maurice.

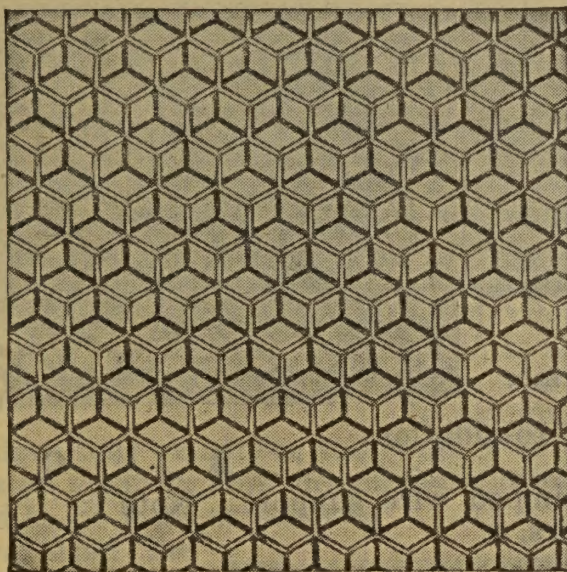


What Comb Foundation Is



Comb foundation is a base for the comb of the honeybee, not to be confused with the completed comb, with its deep cells. Dadant's Comb Foundation is made of sheets of pure beeswax, imprinted with cell bases, with just the start of the side walls in exact reproduction of the worker cells in the natural comb.

Value of Comb Foundation—Foundation is one of the most important articles in the equipment of the beekeeper. Without it practically all the benefits of the movable frame hive simply supplied with their combs in every following the frame course, makes it impossible to handle a modern than it is to use a box of foundation are used ever, straight combs which is confined to a the beekeeper has no over his colonies at



Section from sheet of foundation.

Reduces Drones—full sheets, beekeepers starters of foundation it gave the bees a start ered so expensive. This than no foundation, shift. Practical bee now never use any both in frames and in comb honey sections. Entirely straight combs are not obtain-able otherwise, and the bees will build drone comb in which useless drones will be reared.

Most beekeepers now realize the importance of keeping drone comb out of the brood nest as much as possible. After combs are once built, bees do not change them much and if there is a square inch or a square foot of drone comb in the hive it will be filled with brood several times a season, producing a large number of drones, which are bound to shorten the honey crop or favor swarming. From any angle, therefore, drone comb is a serious nuisance. Foundation, being 100 per cent worker cells, results in worker comb with only a few drone cells in the corners, and the use of full sheets of foundation is therefore a large factor in proper hive management.

Saves Labor—Comb foundation also saves the bees a great deal of work and loss of honey. From various experiments it has been learned that comb costs the bees from 7 to 20 pounds of honey for each pound of beeswax, depending on the age of the wax makers, the available nectar and other factors. A pound of foundation, therefore, given to the bees, will save considerable of this honey; enough to return the investment to the beekeeper, in addition to securing good combs.

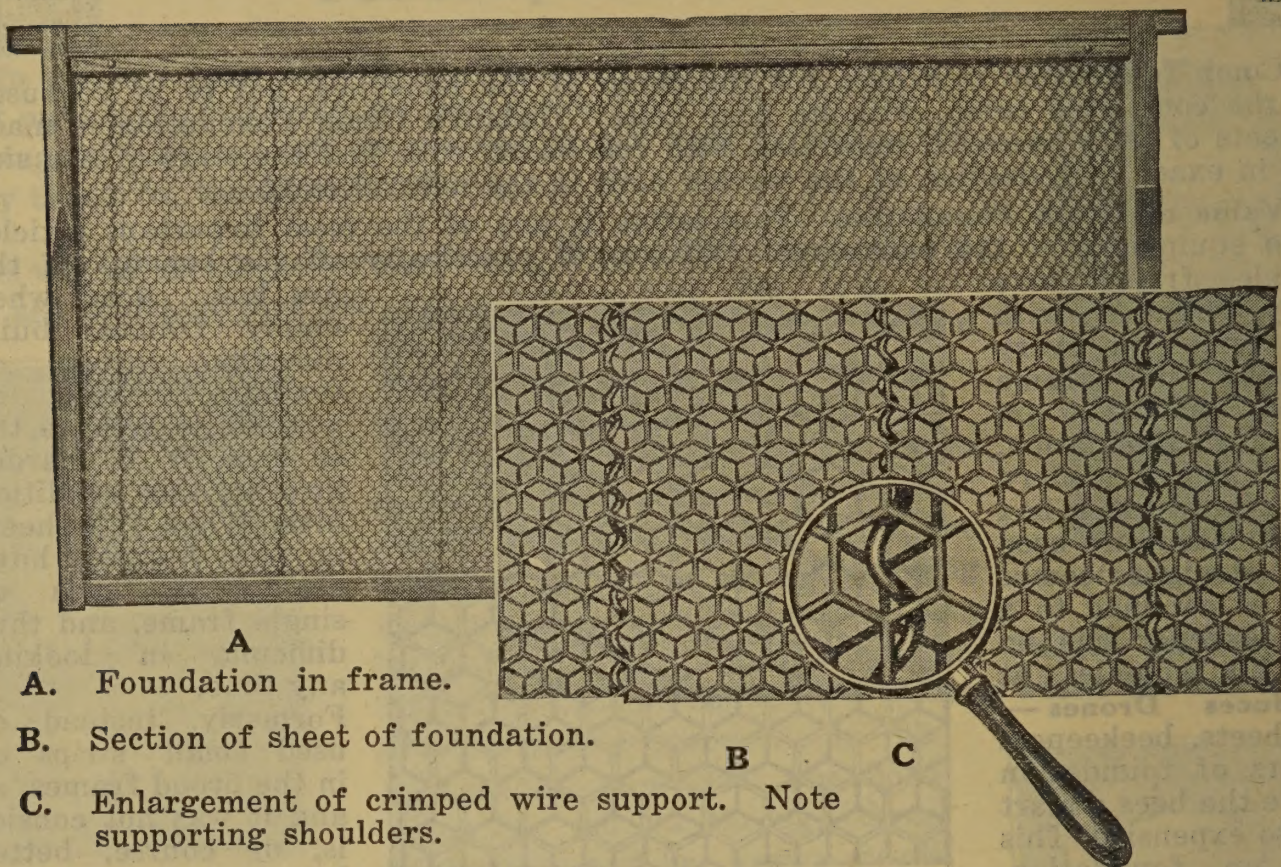
Increases Crop—Not only are straight combs necessary in the brood nest, but they are the only kind the beekeeper can afford to have in his hives for the production of extracted honey. The beekeeper who runs his bees for extracted honey must have a large supply of strong, straight combs on hand if he expects to obtain maximum returns from the business and, to obtain these, full sheets of foundation should be used.

Comb Foundation our Specialty

It is, and has been, our specialty for 50 years. Our aim has been constantly to improve, to reject methods which would prohibit making the very best foundation. Dadant's Foundation, therefore, is not the quick invention of a few months' time, but it is the evolution of years, a life specialty of specialists.

Every sheet is of absolutely pure beeswax. There is no substitute or shoddy in it, and it can face the future unafraid. It is carefully inspected and carefully wrapped to reach you in perfect condition.

Dadant's Wired Foundation



- A. Foundation in frame.
- B. Section of sheet of foundation.
- C. Enlargement of crimped wire support. Note supporting shoulders.

PROGRESSIVE ENLARGEMENT OF DETAILS OF WIRED FOUNDATION

Beekeepers who have not used Wired Foundation have missed part of the joy of keeping bees. It has removed so many of the difficulties of comb building that it has won a host of lasting friends.

Naturally no one was quite as concerned in the success of wired Foundation as we were. Those who toil and sweat to give birth to a new idea, however, will not readily see its faults. Although three years of constant effort, study and experiment were spent on this product there were still chances of error or of unsuspected defects.

There was one way to find these. We took it. Fifteen thousand colonies of bees, owned by thirty-five of the largest honey producers, put the foundation to a severe test. Every locality, every change of climate and of honeyflow in the United States was brought into it and no serious flaws were discovered. It behaved just as it had in our own yards of 700 colonies. It is significant to note that every one of the thirty-five beekeepers, each a large and successful honey producer, has remained a steady supporter of Wired Foundation.

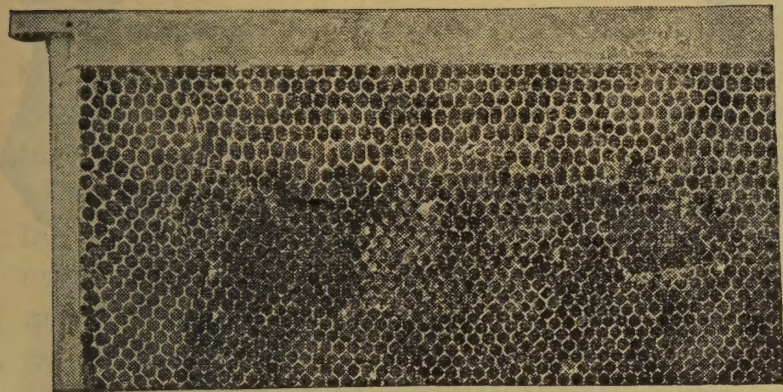
It is doubtful if any previous beekeeping product has had such a thorough and painstaking trial before being offered to beekeepers. The need for such care was clearly evident to us because we were practical beekeepers with the keen sense of beekeeping values which close association with practical beekeeping gives.

In April, 1922, we first offered Wired Foundation for sale. Thousands have used it the past two seasons and we have received compliments from many sources. This is highly pleasing to us, of course, and assures us that our belief in the new product is well founded.

Dadants Wired Foundation



The Need for Wired Foundation—Although the old style foundation made a great change in beekeeping, it did not, in itself, insure well-made combs. The chief defect was due to the plastic nature of beeswax. In the heat of the hive the wax sags and buckles so that the comb built from it is full of flaws. Most noticeable is the sagging of the upper rows of cells so that they are unfit for brood rearing. To make the foundation more stable in the frame it was necessary to imbed wires in it, run lengthwise of the frame by hand. This did not, however, materially remedy the faults in the finished comb.



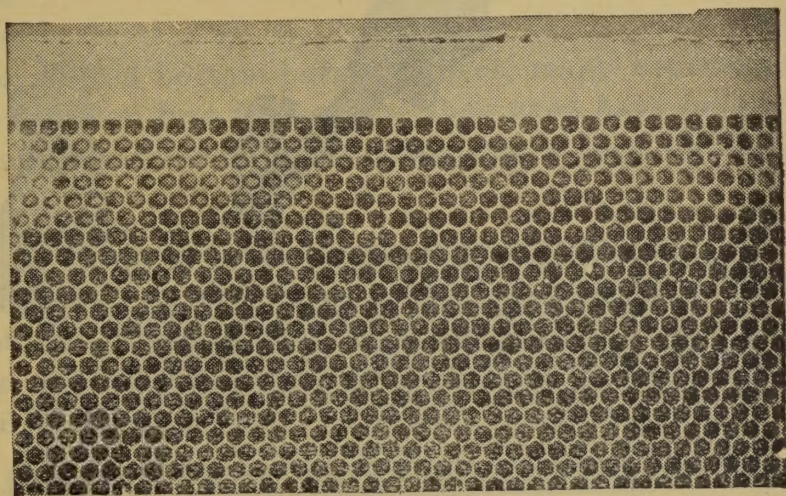
Comb from Old Style Foundation. Note its irregular and sagged cells.

as shown in the illustration, they reinforce the comb with angles of support radiating in all directions. This is an entirely new idea in foundation making and we are proud to say that it has proved to be a great success.

Beekeepers who have used the new wired foundation find that it entirely prevents stretched cells and reduces the amount of drone brood to a remarkably low point. By actual comparison, it has been found that wired foundation increases the worker brood area from 15 to 20 per cent, as compared with the old style foundation. It fits the frames snugly and firmly and stands severe mistreatment. Under favorable conditions, there is no waste area in open spaces at the corners and above the bottom-bars, since the comb is fully built out.

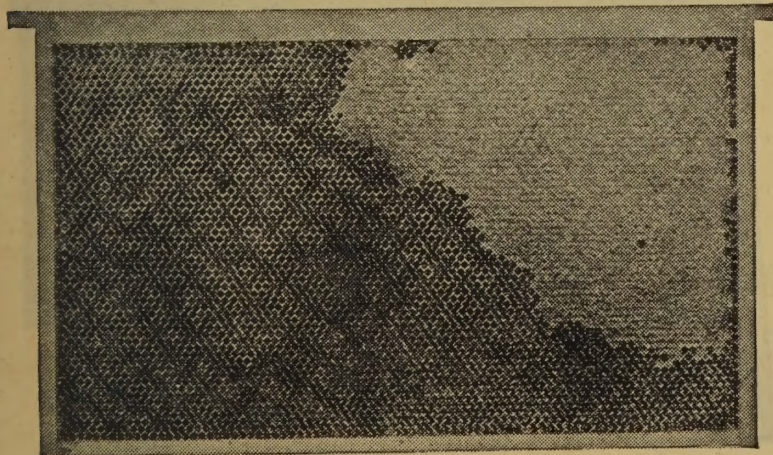
Such results, of course, have been most pleasing to beekeepers, but many have also expressed their ap-

In Dadant Wired Foundation vertical wires are woven into the wax by machinery, which makes a rigid yet flexible sheet, producing a comb which is as straight as a board. The wires are permanently crimped and do not give, even under weight. Also,



Center of comb from Wired Foundation. The cells are worker size, not stretched, and fit for brood to the top-bar.

preciation of the fact that wired foundation, when used in extracting frames, makes a rigid comb which allows the use of higher extracting speeds than is possible with the old style foundation.



Completed comb, attached all around and remarkably regular.

Results Come From Its Good Points

It is reinforced with radiating shoulders of strength—makes non-sag all-worker comb—increases the brood area—reduces the labor and expense of hand wiring—increases the speed of assembly—reduces extracting damage—allows higher extracting speeds.

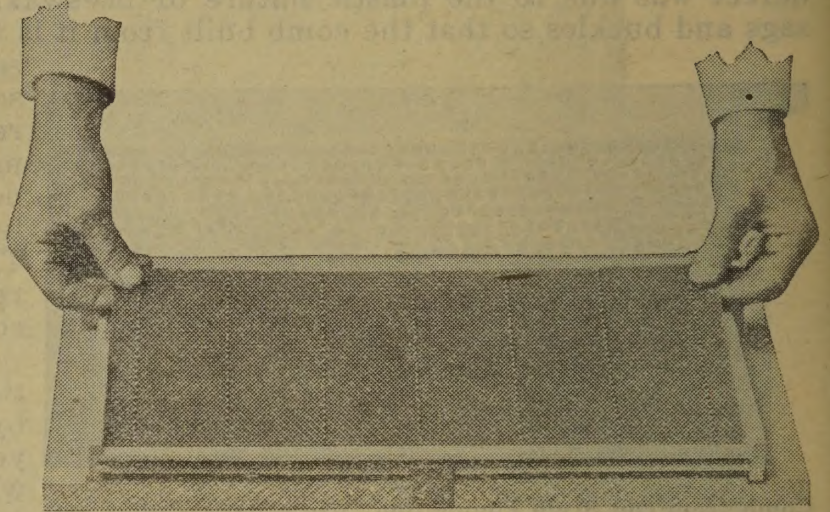
(Made for brood and extracting combs)



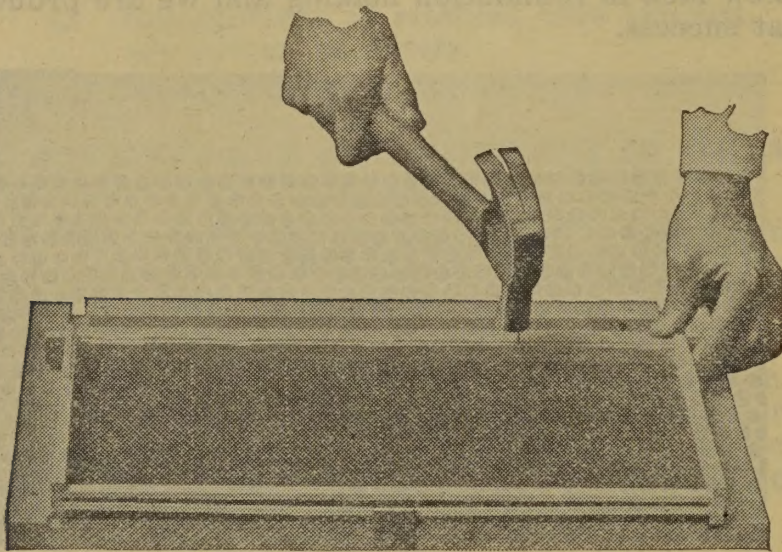
Assembling Wired Foundation



How to Use Wired Foundation—To secure the best results from Dadant's Wired Foundation, we advise the use of frames having a thick top edge and a slotted bottom-bar. (See page 21). These frames are now part of the standard goods of the G. B. Lewis Company and are sold by all of their distributors. They cost no more than the old solid bottom-bar. All of the frames we now furnish have slotted bottom-bars unless it is requested that we send the old style, solid bottom-bars. Slotted bottom-bar frames have been made part of the regular equipment because it was thought that everyone, eventually, would want to use the new foundation, and, for best results, this foundation should go down through the bottom-bar so that the comb will be built out solidly to all sides of the



First, slip sheet of foundation in slot of bottom-bar with top in wedge space.

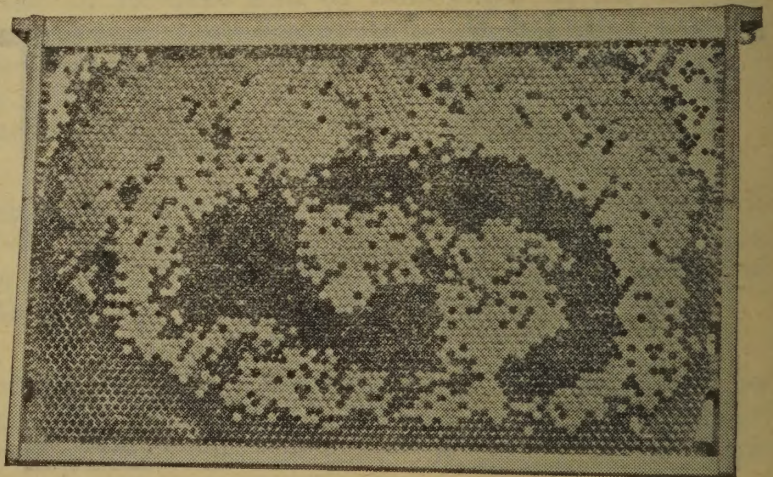


Second, nail wedge firmly down against foundation.

The speed with which wired foundation may be placed in frames is surprisingly rapid and it greatly increases the worker's efficiency, especially when the slotted bottom-bar is used. It can be fastened in frames quicker than longitudinal embedding alone can be done. The illustration shows how the sheet of foundation is slipped into the slotted bottom-bar and laid on the wedge space in the top-bar. The heavy wedge, with which all of our frames are equipped, is then laid on the sheet of foundation and hammered very firmly in place. It is a very simple process and the resulting comb is certainly pleasing. (See page 21 for form boards).

frame. The simple method of putting the foundation in the frame is best shown by the pictures.

We were very much pleased, in using this foundation, with its great time-saving features. We did not have to wire by hand, which was in itself a great pleasure, since it relieved us of a very tedious job, and we found it possible to put up a greater number of frames in a given length of time. In fact, we now no longer need to have many frames on hand, equipped with foundation, even when they are most needed, since it is so easy to assemble the foundation. We can prepare material for several yards in a very short time.



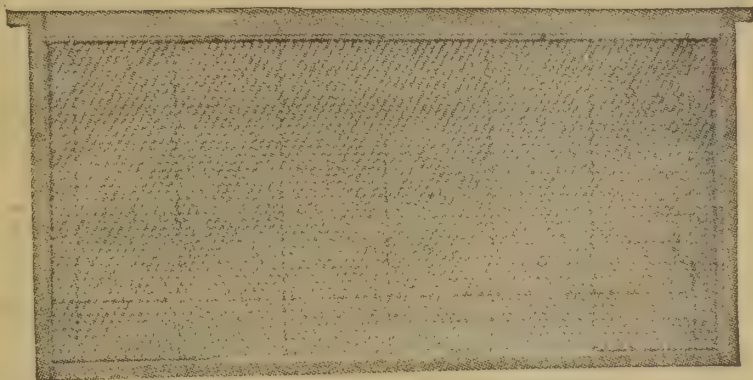
The result, worker brood clear to the top-bar.



Surplus Foundation



For Use in Ordinary One-piece Bottom-bar Frames—Many beekeepers still have the one-piece bottom-bar frames and may wish to keep on using them. Wired foundation is efficient in these frames, although the labor involved is much greater, and we advise the use of the new slotted bottom-bar frames whenever it is possible. A single longitudinal wire, run into the frame by hand, and embedded at the bottom of the foundation, as shown in the illustration, keeps the sheet of foundation at center and the resulting combs are highly desirable in every way. Some beekeepers prefer more than one longitudinal wire but, unless frames deeper than the Langstroth are used, these extra wires are not necessary.



With Solid bottom-bar, a single wire embedded across the bottom of foundation holds the sheet at center.

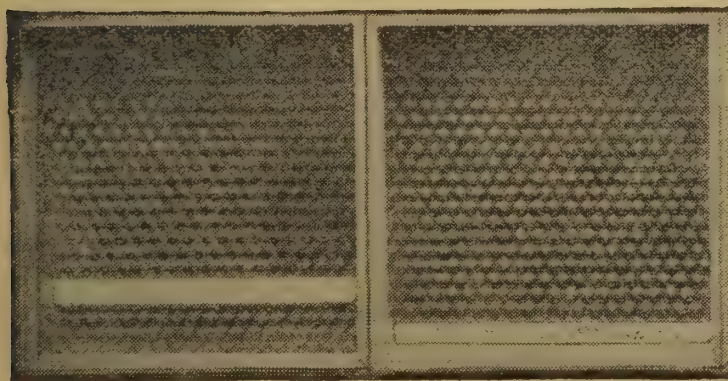
Wired foundation may be used in any style of brood or extracting frame with success. We have a few users of wired foundation who wax the sheets into the frames in one way or another rather than use wedges or slotted bottom-bars. In fact, many beekeepers have their own pet ways of fitting foundation into frames and they need have no hesitation in using wired foundation, since it is found readily adaptable to any variation in the use of foundation.

OLD STYLE FOUNDATION

We still furnish the usual fine quality of old style, unwired brood foundation, for which we have been so long noted. Although we recommend wired foundation for best results, there are some who will still want the old style foundation. When ordering, be sure to specify the kind desired.

SURPLUS FOUNDATION

Foundation for Sections—In the production of comb honey we recommend the use of top and bottom starters as shown in (A). Full sheets as shown in (B) may be used, but there is always danger of sagging during very hot weather. The top and bottom starters, having a space of about one-quarter inch between them, allow a little stretching and practically insure perfect sections of honey, well fastened to all sides, which is an important item in shipping honey. The lower starter should be about five-eighths inch high. Foundation for sections, of course, is not wired.



A
Top and bottom starter.
Best method.

B
Full sheet.
Good method.

See page 22 for sections.



Prices of Foundation



WIRED FOUNDATION—Prices per Pound

	1-lb. box	2-lb. box	5-lb. box	25-lb. wood box	50-lb. wood box
Medium Brood, wired	78	75	73	71	70

OLD STYLE, PLAIN FOUNDATION—Prices per Pound

	75	72	70	68	67
Medium Brood -----					

Light brood foundation, in old style, unwired only, furnished on order at 5c per pound above medium brood prices.

Sizes and Sheets per Pound

KIND OF FRAMES—	Wired Foundation			Old Style Foundation	
	Approx. Sheets Per Lb.	Slotted or Split Bottom-bar	One Piece Bottom-bar	Approx. Sheets Per Lb.	
	Med. Brood			Med. Brood	Sizes
Langstroth Brood	6	8 9-16x16¾	8 ⅛x16¾	7	7 ⅞x16 ¾
Modified Dadant or Quinby Brood....	4	10 11-16x16¾	10 ¼x16¾	5	10x16 ¾
5¾ Shallow Extracting	10	5 1-16x16¾	4 9-16x16¾	14	4 ½x16 ¾
Modified Dadant Shallow Extracting	9	5 11-16x16¾	5 ¼x16¾	11	5x16 ¾
4½ in. Shallow Extracting	13	4 ⅛x16¾	3 ¾x16¾		

Odd sizes: On account of the large amount of work required to change our automatic machinery for making sizes of wired foundation different from the above, we are compelled to charge the following: On less than 10 pounds a minimum of \$1.00 extra. On 10 to 100 pounds, 10c per pound, 100 to 500 pounds 5c per pound, on 500 pounds or over, 2c per pound. These differentials should be added to the prices quoted in the price list above.

For any other sizes than those listed above in the old style brood foundation we charge \$1.00 on the lot, or 2c per pound for 50 pounds or more.

SURPLUS FOUNDATION

For Section Boxes

PRICES AND SIZES

	Sizes for 4¼x4¼ Sec.	Sheets Per Pound	Prices per Pound			
			1-lb. Box	2-lb. Box	5-lb. Box	25-lb. Box
Thin Surplus	3 ⅞x16 ½	28-	83	80	78	76
Extra Thin	3 ⅞x16 ½	32-	85	82	80	78

Other sizes: 3 11-16x14¼ for 4x5 Sec.
4 ⅛x17 ⅞ for 4¼x4¼ grooved or split Sec.
4 ½x16 ½ for 5¾ shallow frame, for bulk comb honey.

Odd Sizes: For any other sizes than those given above in surplus grades, we charge \$1.00 extra on the lot, or 2c per pound extra.



Foundation Weights—Assorted Cartons



Our Guarantee on Foundation.—We guarantee every inch of foundation made by us to be equal to the best that we have ever made or to any samples we send out. This holds good in every pound, in every ton, in every hundred tons sold by us. If not exposed to light, Dadant's Foundation will keep for years and is quickly accepted by the bees, since it is made of absolutely pure beeswax. **There are no substitutes in Dadant's Foundation and comb rendered from it will yield nothing but pure beeswax.**

Weights for Mailing Foundation by Parcel Post

When ordering Foundation by mail add the weights for packing given in the column to the right as below

Add the following weights for packing

For 1 pound net of Foundation	½ lb.
For 2 to 4 pounds net of Foundation	1 lb.
For 4 to 7 pounds net of Foundation	2 lbs.
For 7 to 12 pounds net of Foundation	3 lbs.
For 12 to 15 pounds net of Foundation	5 lbs.
For 15 to 20 pounds net of Foundation	7 lbs.
For 20 to 25 pounds net of Foundation	10 lbs.
For 25 to 30 pounds net of Foundation	15 lbs.
For 30 to 35 pounds net of Foundation	20 lbs.
For 35 to 50 pounds net of Foundation	25 lbs.

EXAMPLE—When ordering 12 pounds of foundation, add 3 pounds for packing, making total weight of 15 pounds on which you must send money for postage, as per inside front cover of this catalog.

In the first, second and third zones, packages weighing up to 70 pounds may be sent by parcel post. This would be 55 pounds of foundation, net weight. In the fourth, fifth, sixth, seventh and eighth zones, 40 pounds of foundation, net weight, is as much as can be sent in one package.

NOTE—Remember, a fraction of a pound is the same as a full pound. For parcel post rates see inside front cover of this catalog.

ASSORTED CARTONS

For large quantities packed in freight cartons of chip board, add the following to 25-pound prices of wired, surplus or old style foundation:

- 1-pound freight carton, 3c per pound.
- 5-pound freight carton, 1c per pound.
- 2-pound freight carton, 2c per pound.
- Regular assorted cartons, 2c per pound.

IMPORTANT POINTS IN GETTING THE BEST RESULTS FROM COMB FOUNDATION

Give foundation to the bees only when they need it: when nectar is freely available and bees are stimulated to wax making.

Strong colonies will work foundation better and use more of it at one time than weak colonies.

The best results are obtained when combs are drawn out above the brood nest.

Weak colonies will damage foundation if it is given to them too freely.

During a dearth, bees will damage foundation by removing wax from it for dry comb building.

Rendering Old Combs and Cappings into Beeswax



Our factory is equipped with steam wax presses which secure all the available beeswax out of old combs and cappings. Many large beekeepers find our wax rendering service profitable and enough more beeswax is often secured to pay for the charges made. It also relieves the beekeeper of a "mussy," unpleasant job.

Terms for Rendering, Either for Cash or on Shares.

Old Combs.

	Cash Terms Per Pound	Share Terms Your Share	Our Share
On 100 lbs. or more beeswax secured	-----\$0.05	80 per cent	20 per cent
On 25 to 100 lbs. beeswax secured	----- .06	75 per cent	25 per cent
On less than 25 lbs. beeswax secured	----- .10	60 per cent	40 per cent

Cappings

On 100 lbs. or more beeswax secured	----- .03	90 per cent	10 per cent
On 25 to 100 lbs. beeswax secured	----- .05	80 per cent	20 per cent
On less than 25 lbs. beeswax secured	----- .06	75 per cent	25 per cent

Freight or express charges will be charged to the shipper.

For your share of the beeswax we will pay you our best cash price quoted on application any time, either for cash or to apply on bee supplies you may need.

Amount of Beeswax in Old Combs and Cappings.

Old Combs—The amount of beeswax in old combs varies greatly. Usually it takes about four Langstroth brood combs to produce one pound of beeswax. The weight of the combs has nothing to do with the amount of beeswax contained in them. Combs that are full of pollen or honey contain no more wax than the same number of combs that are dry and of light weight. One may expect about 2½ pounds of beeswax, net, from ten Langstroth brood frames.

Cappings—Cappings from 1000 pounds of extracted honey will make from seven to ten pounds of beeswax, depending on how deep the cappings are cut and how much burr comb is taken off with them. To render a fair amount of wax, cappings should be well drained or thoroughly washed in warm water and well dried before shipping.

Shipping Instructions

If possible, old combs and cappings should be shipped during the winter or early spring months, because of the danger from moths. Pack the material in tight boxes or barrels lined with heavy papers or sacks. If dry, it may also be packed in double or triple gunny sacks.

Have your railroad agent bill the shipment as "**Beeswax Refuse**," as such material takes a lower freight rate. A real good way to prepare old combs for shipment is to put them in a barrel and cut them into fine bits with a sharp, wet spade before packing.

Be sure to put your name outside and inside the package, so we may identify your lot among the many others. It will not pay to ship less than 100 pounds of old combs or cappings, unless you have other beeswax to include in the shipment. Gross and net weight vary greatly with the age of the combs and the quantity of pollen contained in them.

Combs with much honey or brood in them are not wanted on any terms, because of the danger of spreading disease. Foulbrood combs should never be shipped under any circumstances without at first rendering them. If we receive combs containing foulbrood or dripping with honey we will burn them on arrival.



Beeswax Wanted



We buy pure beeswax at all seasons of the year, in any quantity. Drop us a postal card, stating quantity and color and we will gladly quote our prices f. o. b. Hamilton, or f. o. b. your station. We do not deduct any commission or cartage and the prices we quote are net. It will pay you to communicate with us, no matter what quantity you have to sell.

We use annually about 200 tons of beeswax and like to buy direct from beekeepers. We are always ready to pay highest market price, especially for good, clean, light colored beeswax. If you are in the market for comb foundation or any kind of bee supplies we will gladly take your wax in trade.

How to Pack—The best packages for beeswax are double gunny or grain sacks (two thicknesses). The beeswax should be fastened tightly in the sacks without any paper or packing of any kind. Long experience has shown that beeswax comes through in this way better than in any other. When you ask for prices we will send you shipping tags for your convenience.



Beeswax in double sacks.

Marking Packages—In making shipment, each package should be **marked with our name and address in full**, so there will be no chance of the shipment going astray.

Mark your own name and address on both the outside and the inside, and the number of pounds in the shipment. Unless the package is plainly marked in this way, there may be difficulty in recognizing it from others. Remember also that railroad and express companies are always slow in delivering and collecting charges. If you want prompt returns, prepay the freight or express and send us prepaid bills.

Dadant's Foundation contains pure beeswax only. We cannot use mixtures of beeswax and other waxes.

SWEET CLOVER SEED

Hubam Clover—This is the new annual sweet clover which has become of such great interest as a honey plant and soil builder. It is similar to the biennial sweet clover but blooms and sets seed the same year it is sown. The biennial blooms the second year.

We have hulled seed, recleaned and scarified, of Hubam, biennial, and yellow sweet clovers.

Prices on application.

TAKE NOTE

Some manufacturers are offering a reinforced comb foundation made by mixing vegetable wax with beeswax. This is a big mistake, in our opinion, as combs that are built on such foundation, when rendered, will **NOT YIELD PURE BEESWAX** and cannot honestly be sold as such. If all manufacturers of comb foundation were to use vegetable wax in this manner there would soon be **NO PURE BEESWAX** on the market excepting what was secured from bee trees and from cappings. Keep your beeswax **PURE**. Use **DADANT'S FOUNDATION**.



Lewis Beeware

All our beehives and wooden material are the famous Lewis "Beeware" brand. We have been large beekeepers for many years, with hundreds of colonies of bees, and in all of our experience we have never found hives equal to these, either in quality or workmanship. All of our hives are made of strictly white pine lumber, which, in our opinion, is the only lumber that will stand the weather in all climates. "Beeware" hives are kept up to a high standard, both in workmanship and in quality.

This is of great importance to the beekeeper, as such hives, when well cared for, will last a lifetime.

THE MODIFIED DADANT HIVE

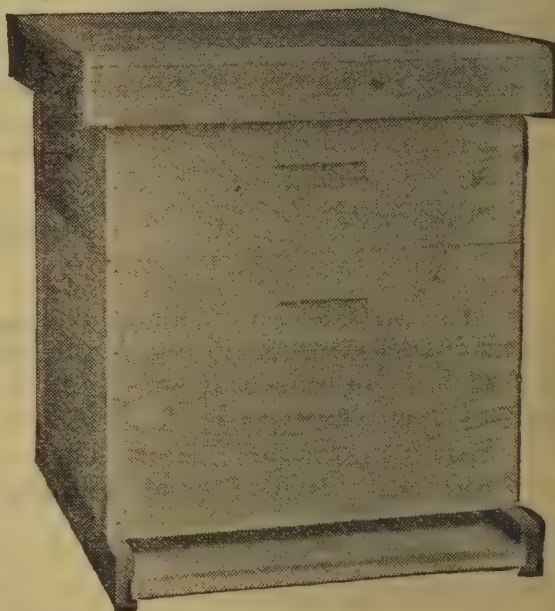
For over fifty years the Dadants have been using and advocating the use of beehives of larger capacity than the standard Langstroth. Our apiaries, which have numbered up to 800 colonies, have always done best when in large sized hives. The Dadant hive, such as we have been using, has met our needs satisfactorily, but has been too expensive in construction to meet with general favor among beekeepers.

Therefore, on account of the tremendous demand for something larger than the 10-frame Langstroth hive, such as is furnished by nearly all manufacturers, we offer and recommend the Modified Dadant hive, which has a brood chamber equal to our Old Style Dadant hive and 40 per cent larger than the 10-frame Langstroth.

There is no doubt in the minds of most extensive beekeepers or of students of the habits of the honeybee that a large brood chamber will produce a larger force of bees for the honey crop. The Modified Dadant hive meets all the requirements of the extracted honey producer, and we believe meets with favor with nearly everyone who is in the business for profit or pleasure.

ADVANTAGES

1. Deep frames (2½ in. deeper than the regular Langstroth).
2. A large brood nest (40% larger than regular Langstroth).
3. A large reserve of honey (just where you want it, above the brood).
4. A compact winter nest (all in one story).
5. Reduced swarming (your prolific queens are satisfied).
6. Wide spacing of frames (more room for storage of honey above cluster, more breathing space and clustering room).
7. Adaptability to use of already available Langstroth equipment (don't throw away your old equipment).



POPULOUS COLONIES

To have an enormous force of field bees in the hive at the beginning of the honey harvest and to keep this force from swarming are the two most important problems in successful honey production. The Modified Dadant hive makes the first of these requirements possible more efficiently than any other hive on the market. The necessary room for brood rearing is present without having the trouble of adding other hive bodies, and adequate room for brood rearing throughout the spring is the first step in swarm prevention.

It should be remembered that this hive is not a half-way large hive, designed to meet competition. Its capacity is patterned after the original, old-style Dadant hive which we have used successfully in our apiaries for nearly half a century.



Description of Modified Dadant Hive



The Modified Dadant hive is regularly equipped with 11 Hoffman frames which are spaced $1\frac{1}{2}$ inches from center to center. These frames are especially pierced for wire to help prevent sagging, so that when the old style unwired foundation is used in them two wires will come close to the top bars. The 11 frames have the same capacity as 14 Langstroth frames. The Modified Dadant, therefore, is really equal to a 14-frame Langstroth hive.

SPECIFICATIONS

Frames—Hoffman style; standard Langstroth length; $11\frac{1}{4}$ inches outside, similar to Quinby or Dadant. Loose hanging or metal spaced frames furnished, if desired.

Body—Dovetailed, similar to standard Langstroth; $16\frac{7}{8}$ inches wide, 18 5-16 inches long, $11\frac{5}{8}$ inches deep inside.

Bottom Board—Reversible bottom board of thoroughly solid construction, similar to those furnished with all dovetailed hives.

Covers—Metal roof cover made inside to fit over a regular ten-frame hive body and cover it completely. Inner cover also included.

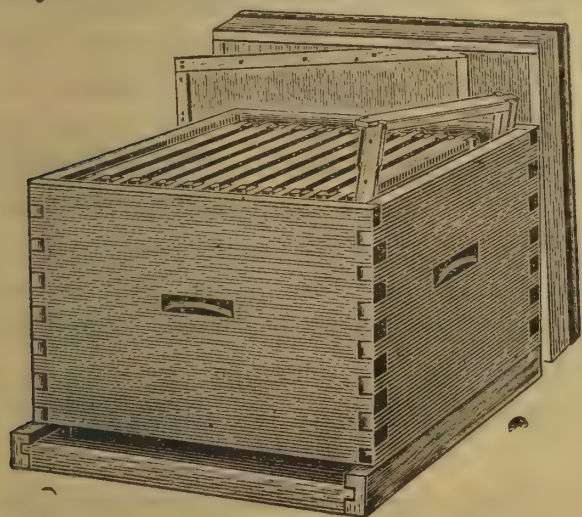


One and one-half story 10-frame Langstroth compared with Modified Dadant.

SUPERS

Extracting—Same depth as original Dadant supers, $6\frac{5}{8}$ inches. This is considerably deeper than the standard $5\frac{3}{8}$ inch extracting supers. The super contains 11 Hoffman frames with thick top bars and wedge for foundation. Less frames may be used, if desired, to get thick combs. The depth of these supers is such that the queen does not readily go into them and it is seldom necessary to use queen excluders. The frames are also a convenient size for uncapping with a single stroke of the knife.

The Modified Dadant hive also allows the use of standard Langstroth bodies as supers, as shown in the illustration on next page. In our own apiaries we have, at times, bought Langstroth equipment and have used a similar device with our old style hives as well as with our Modified hives. When these deep supers are used, however, queen excluders are advisable. The beekeeper who has standard Langstroth equipment can easily change to the Modified Dadant hives, therefore, without any loss of material. The number of beekeepers who are doing this is increasing rapidly each year and we are constantly receiving letters telling of their satisfaction.



Modified Dadant, 11 frames

Comb Honey—The powerful colonies which it is possible to get in these large hives, make the use of Modified Dadant comb-honey supers a success. An increasing number of beekeepers are using this equipment for comb honey, especially where little time can be given to the bees. Many beekeepers are reporting considerable increase in yields when the larger hives are in use.



Price List of Modified Dadant Hives and Parts



COMPLETE HIVES

One-story hive consists of bottom, body with frames, and metal cover, including inner cover.	Nailed and painted	Flat, including nails	
	One	One	Five
1-story hive, without foundation	\$ 7.60	\$ 5.50	\$21.20
1-story hive, with full sheets wired foundation	9.95	7.56	31.24
1½-story hive, without foundation (for extracting)	9.60	7.25	28.40
1½-story hive, will full sheets wired fnd. (for extracting)	13.00	10.23	42.75

BODIES

Bodies without frames, no foundation	\$ 1.80	\$ 1.55	\$ 6.65
Bodies with frames, no foundation	3.20	2.55	10.45
Bodies with frames, full sheets wired foundation	6.50	4.61	20.49

COVERS AND BOTTOMS

Metal covers, with inners	\$ 3.00	\$ 2.60	\$ 9.35
Bottoms	1.60	1.15	4.40
Inner covers	.45	.40	2.00

SUPERS

Supers with shallow frames, 6¼ in. deep, no foundation	\$ 2.00	\$ 1.75	\$ 7.20
Supers with shallow frames, 6¼ in. deep, with wired foundation..	3.05	2.67	11.51
Supers, empty, no frames, 4 sides only	1.25	1.10	3.90
Comb honey supers for Modified Dadant hive, complete; no sections or foundation.	1.85	1.35	6.50
Comb. honey supers for Mod Dadant hive, empty, 4 sides only	1.20	1.10	3.50

DIVISION BOARDS

For contracting brood nest.	.60
----------------------------------	-----

Where any of the above are not ordered in lots of five of one kind the single rate is charged for the odd number.

Write for Special Prices on lots of 25 or more at one time.



USING TEN-FRAME HIVES AS SUPERS

The fact that the ten-frame hive body is completely adaptable to use as a deep super on the Modified Dadant hive makes a change to the larger hive a simple matter. The Modified Dadant hive cover is made so it will cover the smaller hive also and the fastening of inch strips to the ten-frame bodies at the lower edge is the only adjustment needed to make the change complete.

For complete description of the Modified Dadant hive send for our free booklet.

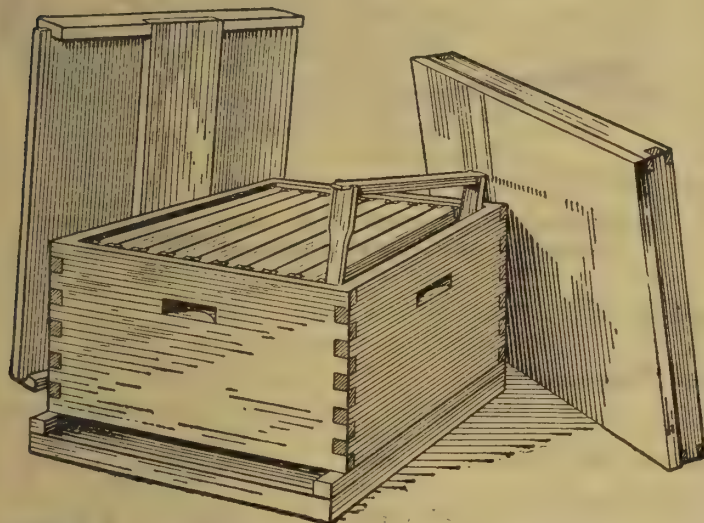


Ten and Eight Frame Dovetailed Hives



(Langstroth size.)

All hives listed on this and following pages are the regular Langstroth size. We strongly urge beginners, however, to start with the Modified Dadant hive, and many of the older beekeepers will find it profitable to make this change, even though it means two sizes of equipment for a time. Our fifty years experience has proven conclusively to us that even the ten-frame hive is too small for the best results in honey production.



One-story dovetailed hive showing both metal and excelsior covers.

DESCRIPTION

The eight and ten-frame dovetailed hive is the regular Langstroth pattern and takes the regular Langstroth frames, Hoffman style. It consists of a bottom, body with brood frames and either the metal or excelsior cover, as desired. The metal-roofed cover is much preferred by beekeepers everywhere. The bottom is reversible, with a deep inch opening on one side and a three-eighths inch opening on the other, permitting reversing for winter or summer. The body has locked corners and hand holes on four sides and is fitted with tin rabbets for the frames to rest on.

Frames are the Hoffman self-spacing style, having the heavy corner cut top bar and wedge, and slotted bottom bar, which is the best equipment for Dadant's Wired Foundation. Side bars are bored so that horizontal wiring may be used if desired.

Nails are always furnished with hives in the flat and when comb foundation is wanted it is packed separately.

We recommend the ten-frame size as a more practical hive than the eight-frame. Under ordinary conditions it is far better for wintering bees and, during the honey-flow, will produce less swarms and more honey.

All frames in our hives have slotted bottom bars and thick top wedges suitable for use with Dadant's Wired Foundation.

HIVE PRICES

With Metal Covers.

Including metal cover, bottom and brood chamber with frames. Furnished in the 8 and 10-frame sizes, as listed below.	Nailed and Painted	In flat, including nails	
	1 Hive	1 Hive	5 Hives
1-story 8-frame hive, without foundation starters	\$5.95	\$3.70	\$16.40
1-story 10-frame hive, without foundation starters	6.20	4.10	17.60
1-story 8-frame hive, with full sheets of wired foundation	7.35	4.70	21.27
1-story 10-frame hive, with full sheets of wired foundation.....	7.95	5.35	23.70

With Excelsior Wood Covers.

Including wood cover, bottom and brood-chamber with frames. Furnished in the 8 and 10-frame sizes, as listed below.	Nailed and Painted.	In flat, including nails.	
	1 Hive	1 Hive	5 hives
1-story 8-frame hive, without foundation starters	\$4.90	\$3.20	\$13.25
1-story 10-frame hive, without foundation starters	5.10	3.45	14.35
1-story 8-frame hive, with full sheets of wired foundation.....	6.30	4.20	18.12
1-story 10-frame hive, with full sheets of wired foundation.....	6.85	4.70	20.45

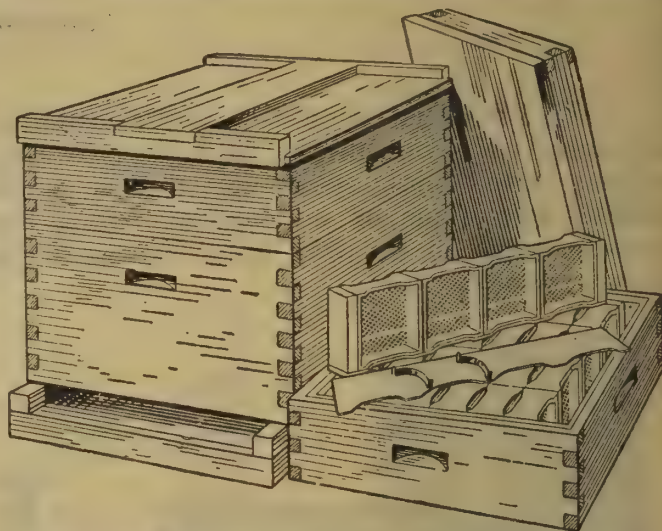


One and a Half Story Hives for Comb Honey



These are the hives most generally used by beekeepers producing comb honey. They are equipped with one comb honey super containing sections or honey boxes. We urge the use of the standard $4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{3}{8}$ sections, since most extensive comb honey producers use this size of beeway section and they are salable anywhere. Many honey dealers will not buy comb honey unless it is in this style of section.

All frames in our hives have slotted bottom bars, suitable for use with Dadant's Wired Foundation.



One-and-one-half-story hive with extra super alongside and metal cover at the back.

PRICES With Metal Covers

▲ $1\frac{1}{2}$ -story hive includes cover, bottom, brood-chamber with brood-frames and one super with inside furniture.	Nailed and Painted	In flat, including Nails	
	1 Hive	1 Hive	5 Hives
$1\frac{1}{2}$ -story 8-frame hive, without sections or foundation starters----	\$7.50	\$4.95	\$21.05
$1\frac{1}{2}$ -story 10-frame hive, without sections or foundation starters----	7.85	5.45	22.85
$1\frac{1}{2}$ -story 8-fr. hive, with sections and full sheets wired foundation--	10.00	6.49	28.61
$1\frac{1}{2}$ -story 10-fr. hive, with sections and full sheets wired foundation--	10.85	7.33	32.09

With Excelsior Wood Covers

▲ $1\frac{1}{2}$ -story hive includes cover, bottom, brood-chamber with brood-frames and one super with inside furniture.	Nailed and Painted	In flat, including Nails	
	1 Hive	1 Hive	5 Hives
$1\frac{1}{2}$ -story 8-frame hive, without sections or foundation starters----	\$6.45	\$4.45	\$17.90
$1\frac{1}{2}$ -story 10-frame hive, without sections or foundation starters----	6.75	4.80	19.60
$1\frac{1}{2}$ -story 8-fr. hive, with sections and full sheets wired foundation--	8.95	5.99	25.46
$1\frac{1}{2}$ -story 10-fr. hive, with sections and full sheets wired foundation--	9.75	6.68	28.84

Where any of the above are not ordered in lots of five of one kind, the single rate is charged for the odd number.

In ordering be sure to state whether you want hives for comb or extracted honey. Hives for extracted honey listed on next page.

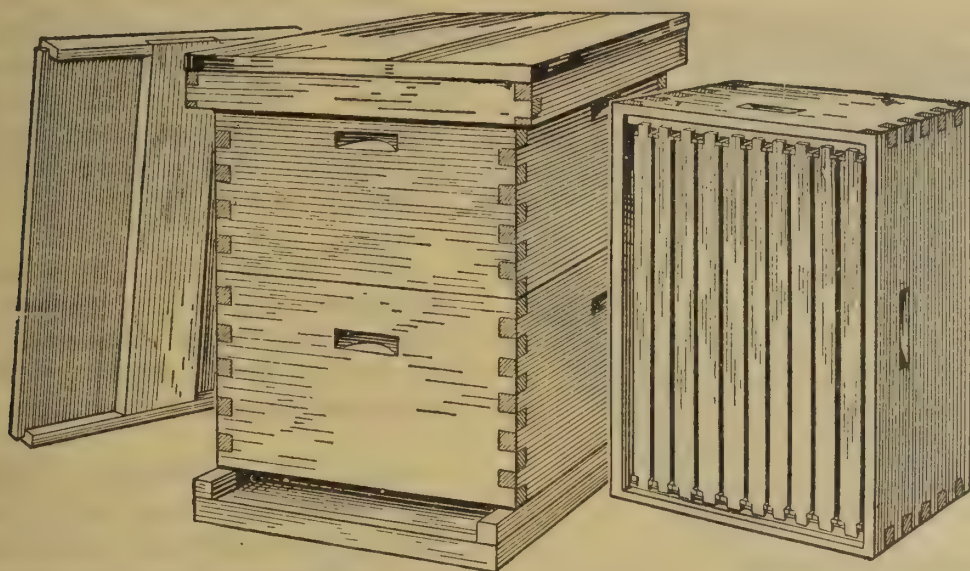
No. 2 supers instead of No. 1 for above hives, 35 cents per super, extra. No. 4 supers, 65 cents per super extra.

THE GOLDEN RULE *Keep Your Colonies Strong*

If you cannot succeed in doing this, the less will be your returns from keeping bees. If your colonies are strong you will show that you are a bee-master, as well as a beekeeper, and may safely calculate on generous returns from your industrious subjects.



1½ and 2 Story Hives for Extracted Honey



Two-story hive, with extra deep super showing both metal and excelsior covers.

One-and-a-half and Two-story Hives for Extracted Honey.

Many extensive beekeepers use a two-story hive for the production of extracted honey. The second story is a full-depth or "deep-super," as it is often called. This is really only an extra body and can be exchanged with the regular body of the hive. The frames may be used either below or above. See page 19 for extra hive bodies to be used as supers.

All frames are equipped with slotted bottom-bars to take Dadant's Wired Foundation.

In the production of extracted honey with deep supers, queen excluders are used between the brood-nest and the supers so the queen will not lay in the supers.

One and a Half Story Hives with Shallow Supers

In this hive the super is equipped with shallow frames 5¾ inches deep. On special order we can equip the regular comb-honey super with frames 4½ inches deep. Both styles of frame have thin topbars to save space. Thick topbars similar to those in the brood-frames are not needed in these smaller frames. The thin topbars have a single groove in which the foundation is fastened with liquid wax run in with a Van Deusen wax tube.

Prices

Metal Cover, Two-story Hives, with Full Depth Supers.

A 2-story hive of the above described style includes metal cover, bottom, 2 brood-chambers, or a brood-chamber and upper story, each fitted with brood-frames.	Nailed and Painted	In flat, including Nails	
		1 Hive	5 Hives
Dovetailed	1 Hive		
2-story 8-frame hive, without foundation starters	\$ 8.25	\$5.54	\$23.70
2-story 10-frame hive, without foundation starters	8.70	6.15	25.65
2-story 8-frame hive, with full sheets of wired foundation.....	11.05	7.54	33.44
2-story 10-frame hive with full sheets of wired foundation.....	12.20	8.65	37.85

Metal Cover, One and One-half Story Hives, with Shallow Frame Supers.

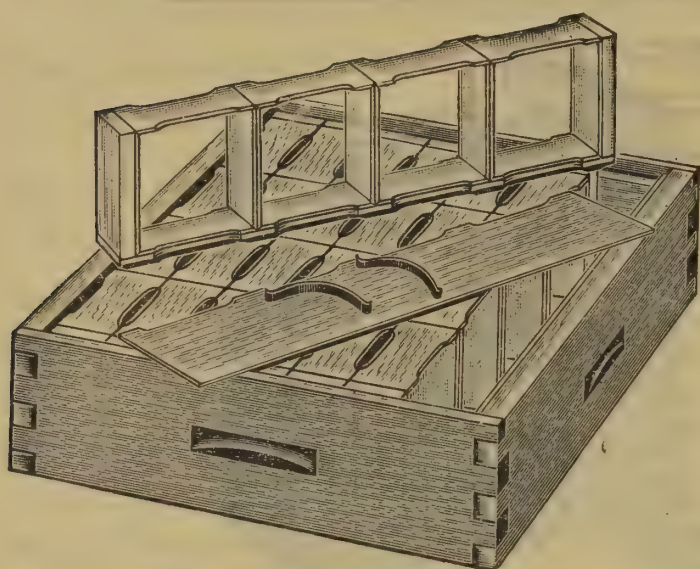
A 1½-story hive includes metal cover, bottom, brood-chamber with brood-frames and 1 super or half-story with the inside fixtures except foundation.	Nailed and Painted	In flat, including Nails	
		1 Hive	5 Hives
Dovetailed	1 Hive		
1½-story 8-frame hive, without foundation starters	\$ 7.65	\$4.90	\$21.20
1½-story 10-frame hive, without foundation starters	8.10	5.40	23.05
1½-story 8-frame hive, with full sheets wired foundation	9.85	6.50	29.07
1½-story 10-frame hive, with full sheets wired foundation	10.90	7.40	32.80

Where any of above supers or hives are not ordered in lots of five of one kind, the single rate is charged for the odd number.

For Dovetailed hives equipped with excelsior cover, deduct 60 cents per hive.



Supers



Number one Super.

No. 1 SUPER—The No 1 super, as shown, is the standard super used by nearly all extensive comb-honey producers. We urge the use of this style super. It is equipped with scalloped separators and section holders for $4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{7}{8}$ sections.

NO. 2 SUPER—This style super is equipped for $4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{1}{2}$ plain or no beeway sections. Instead of separators as in the No. 1 super, fences are used to give beespace between the sections.

NO. 4 SUPER—This super is equipped for the $4 \times 5 \times 1\frac{3}{8}$ plain sections, furnished in either the 8-frame or 10-frame size. It is made so that

two $5\frac{3}{8}$ shallow extracting frames can be used on the sides of the supers, taking the place of the two outside rows of sections.

PLEASE NOTE. The No. 1 super is the regular equipment for all comb-honey hives. When the No. 2, No. 4 or any other style is desired an extra charge is made. See price list for extra charge on these supers. The No. 1 style will be sent if no other style is mentioned.

Price List of Supers for Comb Honey, No. 1.

Including sides and ends, section-holders, separators and springs. Furnished in the 8 and 10-frame sizes.	Nailed and Painted	In flat, including Nails	
	1 Super	1 Super	5 Supers
Dovetailed.			
8-frame size, without sections or foundation	\$1.55	\$1.25	\$4.65
10-frame size, without sections or foundation	1.65	1.35	5.25
8-frame size, with sections and full sheets foundation	2.65	1.79	7.34
10-frame size, with sections and full sheets of foundation	2.90	1.98	8.39
EMPTY SUPERS			
8-frame size, outside shell only, without inside fixtures	.85	.75	2.90
10-frame size, outside shell only, without inside fixtures	.90	.80	2.95

Where supers are not ordered in lots of five of one kind, the single rate is charged for the odd number.

For Number 2 Supers add 35 cents each, extra. For Number 4 Supers add 65 cents each, extra.

SHALLOW EXTRACTING AND HALF-DEPTH SUPERS—The shallow extracting super is furnished in two depths. The regular depth has frames $5\frac{3}{8}$ inches deep. This style super will not do for comb honey. The half-depth style contains frames $4\frac{1}{2}$ inches deep, and this can be used either for comb or extracted honey by simply replacing the separators and section holders with shallow frames. When extracting supers are ordered the $5\frac{3}{8}$ inch frames will always be furnished unless special order is made for the $4\frac{1}{2}$ inch depth.

The frames in the $5\frac{3}{8}$ and $4\frac{1}{2}$ inch shallow extracting supers have thin top-bar with a single groove. The foundation is fastened in this single groove by means of melted beeswax run in with the Van Deusen wax tube. If heavy wedge top-bars are desired, an extra charge is made.

Price List of Shallow Extracting Supers.

Including sides and ends, tin rabbets and frames	Nailed and Painted	In flat, including Nails	
	1 Super	1 Super	5 Supers
Dovetailed.			
8-frame size, without foundation	\$1.70	\$1.20	\$4.80
10-frame size, without foundation	1.90	1.30	5.45
8-frame size, with full sheets of wired foundation	2.50	1.80	7.80
10-frame size, with full sheets of wired foundation	2.95	2.05	9.10
EMPTY SUPERS			
8-frame size, outside shell only, without inside fixtures	.90	.80	3.20
10-frame size, outside shell only, without inside fixtures	.95	.85	3.30

Where supers are not ordered in lots of five of one kind, the single rate is charged for the odd.

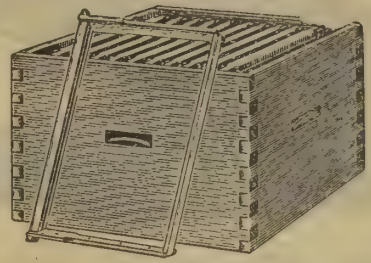


Hive Bodies



Regular Langstroth 9-16
inch Hive Body

Hive bodies or deep supers are furnished either with or without frames. The empty bodies consist of four sides only, and the metal rabbets.



Modified Dadant 11 5-8 in.
Hive Body.

Price List of Hive Bodies or Deep Supers.

Hive Bodies or Deep Supers are furnished empty or with Frames, and in the 8 or 10-frame width.	Nailed and Painted	In flat, including Nails		
		1 Body	1 Body	5 Bodies
Standard Dovetailed				
8-frame size without inside fixt. but with metal rab.....	\$1.45	\$1.20	\$4.55	
10-frame size without inside fixt. with metal rab.....	1.60	1.25	4.75	
8-frame size with frames and metal rabbets, without fnd.....	2.30	1.84	7.30	
10 frame size with frames and metal rabbets without fnd.....	2.50	2.05	8.05	
8-frame size with frames and full sheets wired fnd.....	3.70	2.84	12.17	
10 frame size with frames and full sheets wired fnd	4.25	3.30	14.15	
Modified Dadant Bodies				
Bodies without frames, no foundation	1.80	1.55	6.65	
Bodies with frames, no foundation	3.20	2.55	10.45	
Bodies with frames and full sheets wired foundation	6.50	4.61	20.49	

Where any of the above bodies are not ordered in lots of five of one kind the single rate is charged for the odd number.

COMB HONEY GRADES

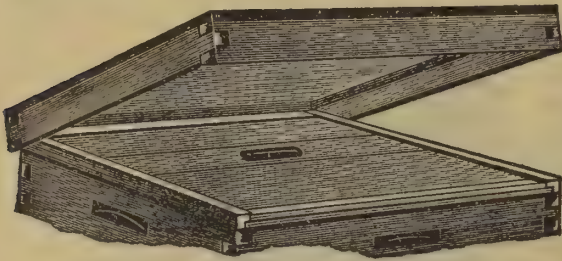


The following grades (illustrated above) are recognized by the Colorado Honey Producers' Association:

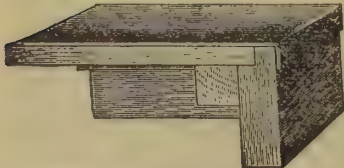
1. Extra fancy—Section well filled, comb attached on all sides; evenly capped, except outside row. Honey, combs and cappings white and not projecting beyond wood. Wood well cleaned. No section to weigh less than 12½ oz. net.
2. Fancy—Sections well filled; combs attached on all sides and evenly capped, except outside row. Honey white or very light amber; comb and cappings white to slightly off color. Comb not projecting beyond wood. Wood well cleaned. No section to weigh less than 12 oz. net.
3. Choice—Section well filled; combs firmly attached, and entirely capped, except row next to wood. Honey, comb and cappings from white to amber, but not dark. Wood well cleaned. No section to weigh less than 10 oz. net.
4. Off Grade—Sections with uncapped cells, except those next to wood; poor finish; partly granulated; off color. Sections with more than 50 empty cells are culls and should not be marketed.



Beehive Covers and Bottoms



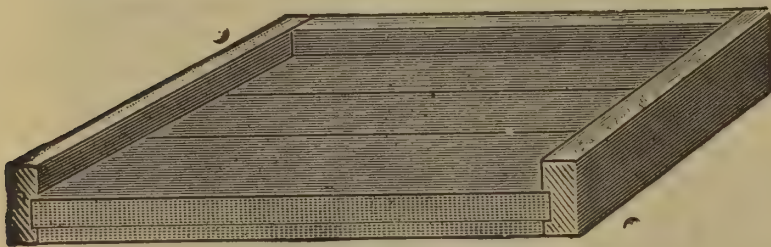
10-frame metal roof hive cover.



Corner section of metal Cover



Excelsior hive cover, top and end.



Bottom-board—Reversible.

Metal Roof Cover

We believe this to be the most economical cover on the market. It is equipped either with or without the inner cover, the price being a little higher when equipped with it. Unless otherwise specified the inner cover is always included. The metal roof cover does well in almost any climate, but it is of special value where the atmosphere is dry, tending to loosen the joints of an all wood cover.

Excelsior Cover

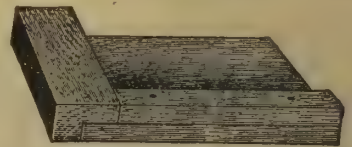
This is a combination of a flat and gable cover, being flat on the under side and slanting like a gable roof on the top. The ridge piece extends over the end cleats binding all parts securely together.

Inner Cover

An inner cover is simply a bee-escape board without the bee-escape. This is a very convenient addition to the hive, as smoke can be blown in at the small hole, and the bees thus prepared for the operations of the beekeeper.

Bottoms

The bottoms for all of our dovetailed hives are made with a three-eighths-inch spacing on one side and a three-fourths inch spacing on the other. By reversing the bottom-board, the hives can be given added ventilation. Made of three-fourths-inch lumber, they give a solid base for the hives to rest on.



Corner section of inner Cover

Entrance Blocks

We can furnish the small triangular entrance blocks so convenient for reducing entrances during cold weather. The price of these is 3c each.

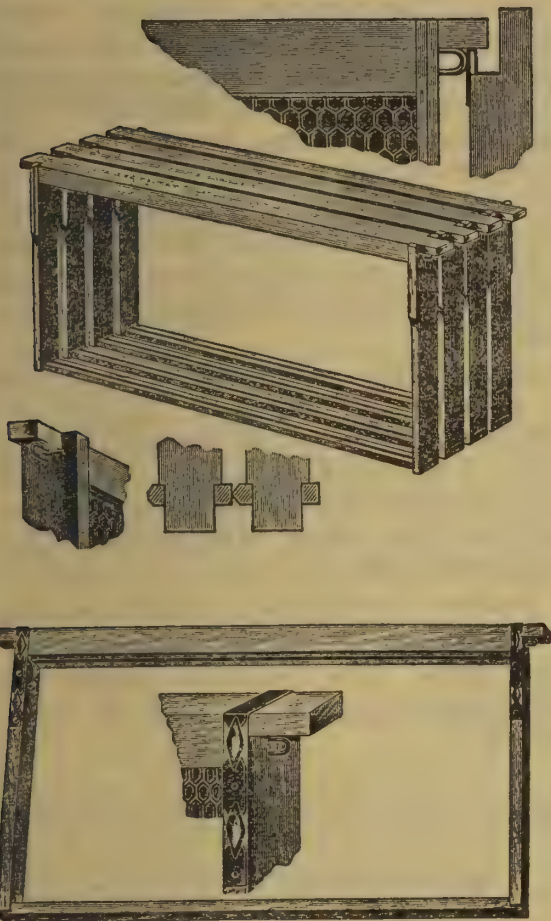
Price List of Covers and Bottoms

STYLE AND SIZE	Nailed and Painted	In flat, including Nails	
	1	1	5
Metal roof with inner cover for 8-frame hive	\$2.30	\$1.55	\$7.10
Metal roof with inner cover for 10-frame hive	2.45	1.70	7.50
Excelsior cover for 8-frame hive	1.25	1.00	3.80
Excelsior cover for 10-frame hive	1.35	1.05	4.05
Inner cover for 8-frame hive	.35	.32	1.60
Inner cover for 10-frame hive	.35	.33	1.65
8-frame bottom	1.45	.90	3.70
10-frame bottom	1.55	.95	4.00

NOTE.—Metal roof-covers without inner covers, deduct price of inner cover given above.



Brood and Shallow Frames



All of our frames are made of the best white pine lumber and the brood frames have an extra heavy "v" wedge for fastening in the foundation. The side bars are pierced with four holes so that they can be readily wired if desired.

The bottom bars are slotted to take Dadant's Wired Foundation.

This is a decided improvement and in keeping with the latest developments in beekeeping. The popularity of Wired Foundation is such that most beekeepers will want to use it and will need the slotted bottom bar for quick assembly and the best results in good combs. Although the slotted bottom bar is for this special use it is just as satisfactory for old-style foundation.

If a supply of the old style, solid bottom-bar frames is on hand the new Wired Foundation may be used in them, using 8 1/8 size sheets and a single longitudinal bottom wire, as shown on page 7.

Hoffman Frames.—These are the regular frames for the dovetailed style of hives. They are self-spacing. Many beekeepers prefer this style as there is no trouble in keeping them the right distance apart. Hoffman frames for the brood chamber of the dovetailed hives have a top bar either 18 3/4 or 19 1/8 inches long. Unless otherwise ordered the 18 3/4 length will always be sent.

Shallow Frames.—These are furnished for dovetailed supers, Hoffman style, 5 3/8 inches deep. **Half depth frames** are also furnished 4 1/2 inches deep to fit the No. 1 comb honey supers.

Loose Hanging Frames.—These are made in the regular Langstroth size and can also be furnished for the Modified Dadant hive. We also furnish loose hanging frames in the shallow sizes given above, if desired.

Metal Spaced Frames.—The metal spaced frame is a Hoffman frame with the spacers made of metal instead of

wood. Many people prefer the metal spaced frames, because it makes a stronger shoulder and the bees are much less likely to glue the metal parts together than the wooden parts.

Odd-Sized or Special Frames.—We are prepared to furnish odd-sized or special frames promptly. In asking for quotations be sure to send us a sample of the frame desired, as it is very difficult to give an accurate description. Odd-sized frames will usually cost \$1.00 or more on the lot, extra. Orders will not be accepted for less than 100 odd-sized frames at a time.

Form Boards for Assembling Wired Foundation.—Made to fit halfway up inside the frame so that foundation may rest level while it is being fastened in with the wedge. Price 50c each. Made for any size of frame.

PRICES

Price List of Frames in Flat with Nails, but without Wire.	Each	100	500
Hoffman frame, regular style (self-spaced)	.08	\$6.80	\$33.50
Hoffman (metal spaced)	.09	8.60	42.50
Loose hanging frame top-bar 19 1/4 inches long or 20 1/4 in.	.08	6.80	33.50
Shallow extracting frames for Dovetailed supers (5 3/8 in. or 4 1/2 inches deep) with thin single groove top bars.....	.06	5.25	25.00
Shallow extracting frames for Dovetailed supers or Modified Dadant supers, with thick grooved top-bars	.08	6.40	
Shallow extracting loose hanging (thick top-bar)	.07	6.20	28.90
Modified Dadant brood frames, Hoffman or loose hanging style	.09	8.45	
Modified Dadant brood frames, metal spaced	.11	10.05	

Wire for 100 brood frames 23c extra. Mailing weight, 10 frames, 5 pounds; 100 frames, 50 pounds, In ordering be sure to state EXACTLY the size and style of frame you desire.

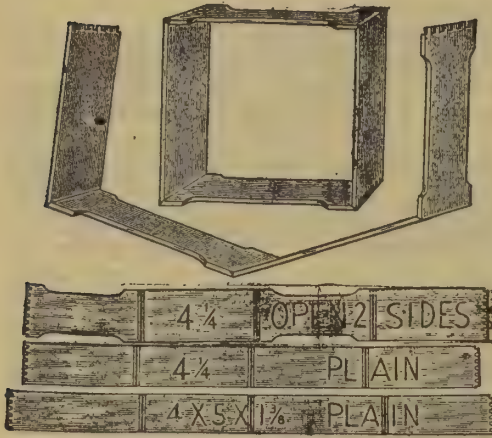
Brood Frames Nailed and with Full Sheets Wired Foundation.

Kind of frame.	Each.	100
Langstroth brood frames, Hoffman or other style	\$.40	\$31.50
Dadant brood frame, old style	.55	35 00
4 1/2-inch shallow extracting	.35	21.00
5 3/8-inch shallow extracting	.40	22.50
Dadant extracting frame, old style	.55	35.00
Modified Dadant brood frames	.40	23.50
Modified Dadant extracting frames		

Weight per ten, when packed for parcel post, 10 pounds.



Section Honey Boxes



We handle only the famous Lewis sections, which we consider the best on the market. We carry half a million to a million sections on hand at all times.

The material used is Wisconsin basswood, which is most suitable for sections, having a tough fiber and taking a high polish. Thousands of them are often folded without breaking a single one.

They are of uniform thickness and the dovetailed corners are just tight enough to hold the section in shape after folding. We have sold millions of them in the past 40 years and they have given satisfaction wherever used.

Standard Beeway Sections.—The $4\frac{1}{4} \times 4\frac{1}{4}$ is the standard section. The regular width is $1\frac{7}{8}$, but we can also furnish sections the following widths: 2 inches, 1 15-16, $1\frac{3}{4}$, 7 to the foot, and $1\frac{1}{2}$ inches.

Plain sections.—Plain sections have no beeways, and are used with fences. The regular size is $4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{1}{2}$, but we can furnish this size $1\frac{5}{8}$ wide. Other sizes furnished at the regular prices as follows: $4 \times 5 \times 1\frac{3}{8}$, $4 \times 5 \times 1\frac{1}{2}$, $3\frac{5}{8} \times 5 \times 1\frac{1}{2}$.

Grades.—The Lewis sections are put up in two grades, the **Renown** and **Favorite**. The Renown grade is perfect in every respect and this is the grade we urge all beekeepers to buy who sell their honey on the larger markets. The Favorite grade is a good one, however, and better than some of so-called No. 1 sections. It is especially recommended where honey is sold to home trade.

Prices—Renown Grade

Standard Beeway $4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{7}{8}$			Plain or No Beeway.		
Quantity.	Price.	Weight.	Quantity.	Price.	Weight.
100	\$1.50	7 lbs.	100	\$1.40	6 lbs.
250	3.65	18 lbs.	200	3.40	14 lbs.
500	6.95	25 lbs.	500	6.50	30 lbs.
1000	13.90	70 lbs.	1000	13.00	60 lbs.

Mill Run Grade, Beeway Style, Miscellaneous Sizes.

Size.	Price 500.	Size.	Price 500.
$4\frac{1}{4} \times 4\frac{1}{4} \times 7-12$	\$6.80	$4\frac{1}{4} \times 4\frac{1}{4} \times 1 \text{ 15-16}$	\$6.80
$4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{3}{4}$	\$6.80	$4\frac{1}{4} \times 4\frac{1}{4} \times 2$	\$6.80

FAVORITE GRADE—\$1.60 per thousand less than above list.

We keep the following sizes of Favorite sections in stock: $4\frac{1}{4} \times 1\frac{7}{8}$, 2 sides open; $4\frac{1}{4} \times 1\frac{7}{8}$, 4 sides open; $4 \times 5 \times 1\frac{3}{8}$, plain; $4\frac{1}{4} \times 1\frac{1}{2}$, plain. Other sizes can be furnished with but little delay.

LARGE QUANTITIES—Parties wanting more than 5,000 sections will please write us for **SPECIAL PRICES**.

One Pound Sections Set Up With Foundation.

(Any style, with either full sheets or top and bottom foundation starters.)

Per 10 or more, each	\$.06
Per 100	5.00

Weight per ten when packed for parcel post, 3 pounds.

In fastening full sheets we use the hot plate method, which cements the foundation to the section. On account of the fragile nature of foundation fastened in sections, we cannot guarantee safe arrival. Sections thus shipped are sent at customer's risk. We pack as carefully as possible, however, so as to have them reach customer in good shape.

They should never be shipped in cold weather.

Be sure to add Postage and insurance when parcel post shipments are wanted.



Beehive Inside Fixtures



Separators



This scalloped wood Separator is the kind furnished with the

No. 1 or regular super. $4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{7}{8}$ Beeway sections. A plain wood separator without the slots is used in the old style T supers.

Scalloped wood Separators are furnished in the following sizes:

$4\frac{1}{2} \times 18\frac{1}{8}$, for Dovetailed hive.

Plain Separators, $3\frac{1}{2} \times 18$.

Mailing weight of 100 Separators, 9 lbs.

Scalloped Section Holder



This section holder is the kind furnished with the Number 1 or regular Dovetailed

Super for $4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{7}{8}$ Beeway sections. Mailing weight of 10 Section-holders, 3 lbs.

Section Slats.



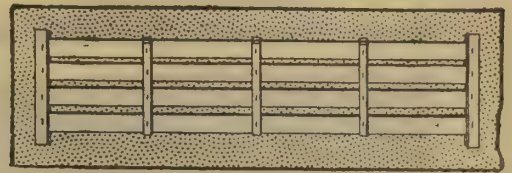
For Dovetailed hive, $\frac{1}{4}$ inch thick. Mailing weight of 10 Section Slats, 2 lbs.

Super Springs.



Price for extra springs, 1 cent each; 75c per 100; \$7.00 per 1,000.

Mailing weight of 100, $1\frac{1}{2}$ pounds.



Fence Separator

The fence separator is used in the Number Two or Plain super with the $4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{1}{2}$ Plain or No-beeway section.

For No. 2 Plain Supers, for Dovetailed Hive, ask for style P.

Other styles also kept in stock.

Mailing weight of 10 Fence Separators, $1\frac{1}{2}$ pounds.

Prices.

Section Holders Knockdown with nails	Per		
	Each	100	500
Scalloped Wood Separators.	\$.02	\$1.70	\$ 6.50
Plain Separators	.02	1.50	6.00
Fence Separators	.09	8.00	39.50
Scalloped Section Holders...	.06	5.25	25.75
Plain Section Holders for $4\frac{1}{4}$	.06	5.10	23.00
Plain Section Holders for 4×5	.06	5.75	28.25
Scalloped Section Slats $\frac{1}{4}$ inch	.03	2.75	12.00
Super Followers	.04	3.50	17.00

Price List of Metal Parts for Hives.

Size and kind	Mailing	
	Per 100	Weight lbs.
Flat tins for super Section Holder rests for either 8-frame or 10- frame Super	\$1.25	8
Tin rabbets for hive body frame rests for 8-frame body	1.60	5
Tin rabbets for hive body frame rests for 10-frame body	1.60	6
T-tins for old style T Supers, 14 inches long or under	1.60	5
T-tins for old style T-Supers, over 14 inches and to 20 inches long...	1.75	6
Metal spacers for Hoffman frames...	.80	2



Division Boards, Nails, Staples, Hooks, Scales, etc.



Division Board Metal Bound Langstroth Size.

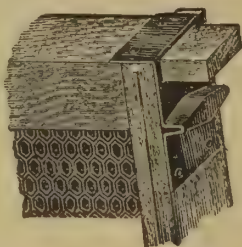


Patented Nov., 1915.

Nailed 16c each, 5 for 75c. Shallow Division Boards, 15c each; 5 for 70c. Weight of 10, 10 pounds. Modified Dadant boards, cloth end (not metal bound), each 60c, 5 for \$2.75.

Metal Frame Shoulder.

The metal frame shoulder and end spacer is made to strengthen the topbars of brood or extracting frames. This shoulder often breaks in handling and the metal shoulder makes a stronger frame, doing away with the chances of breaking. These are substantial pressed steel, easily nailed on.



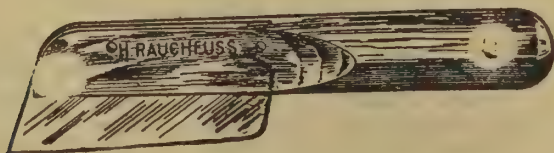
Price of each, 1c; 100, 85c; weight 1½ lbs.

Enameled Cloth.

This is for use over the frames in the summer time and is used instead of honey-board or an inner cover. We use a sheet of enameled cloth and a straw mat, as we find that this is the handiest combination.

Enameled cloth, per yard, 45 in. wide ----\$.45
12 yards, full roll ----- 4.50
Extra heavy, per roll ----- 8.50

Samples on request.



C. H. P. A. Section Scraping Knife.

Price 30c. Weight 3 oz.

The first specially made knife for this work on the market. Of best quality steel. Blade is of proper thickness to easily keep a keen cutting edge.

All Cement Coated Standard (D) Wire Nails

Style	Length	Wire No.	No. Nails in 1 lb.	Keg	Price of 1 10 Keg
2d fine----	1 in.	17	800	11500	.13 1.20 7.00
3d fine----	1½	16	1056	65000	.13 1.20 6.65
4d fine----	1¾	15	752	55000	.13 1.20 7.00
5d cooler--	1½	13	368	25500	.11 1.00 6.50
6d cooler--	1¾	13	272	17900	.11 1.00 6.35
8d cooler--	2¾	11	176	10100	.11 1.00 6.25
10d cooler--	2¾	10	112	6600	.10 .95 6.00

Fine Flat Head, Bright Wire Nails 1 lb. Packages.

Length	1 lb.
½-inch -----	\$.35
⅝-inch -----	.80
¾-inch -----	.25
⅞-inch -----	.22

¼-inch and ⅝-inch Bright Wire Nails.

¼-in. 1 package, 4 ozs., 2,500 nails ----- \$.15

⅝-in. 1 package, 4 ozs., 2,500 nails ----- .12

Above small nails have needle points.



Hive Hook.



Two Inch Staple.

Hive Hooks, Staples, Etc.

Hive Hooks—

With Screws, 10 pairs ----- \$.50

No Screws, 10 pairs ----- .45

Mailing weight of 10 pairs, 1¼ lbs.

2-in. Hive Staples, per lb. --- .15

Frame spacing staples, per lb. .18

Lewis end spacing staples, per pound ----- .35

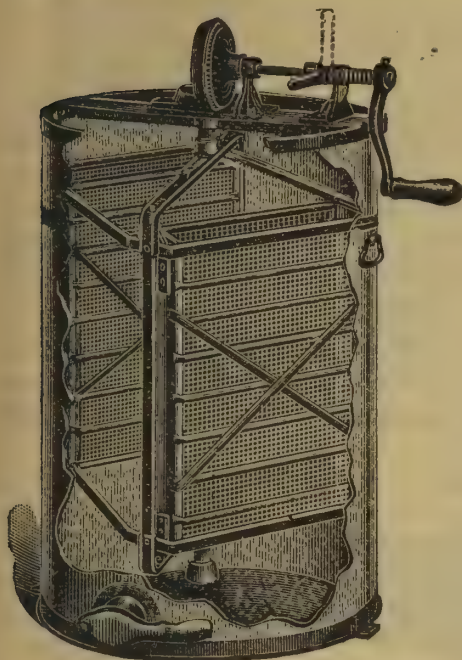


Scales for Weighing Sections Invincible Scales No. 2

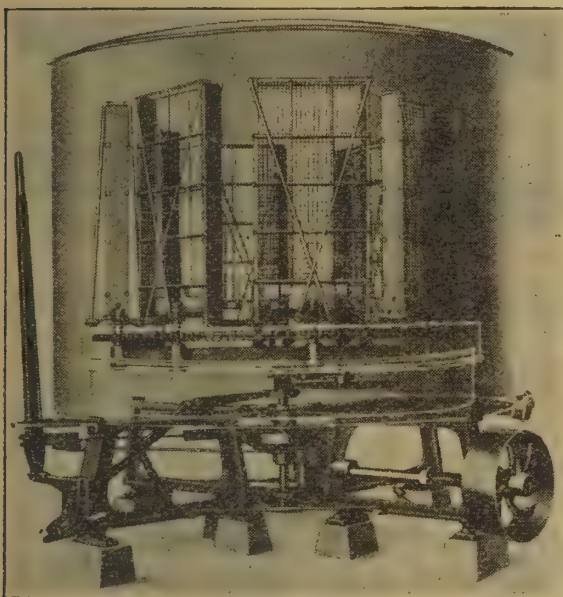
Price each, \$2.80. Weight 2 lbs. Weighs to 2 pounds by half ounces and is quite sensitive.



Honey Extractors



Two Frame Cowan Extractor.



Lewis-Markle Extractor

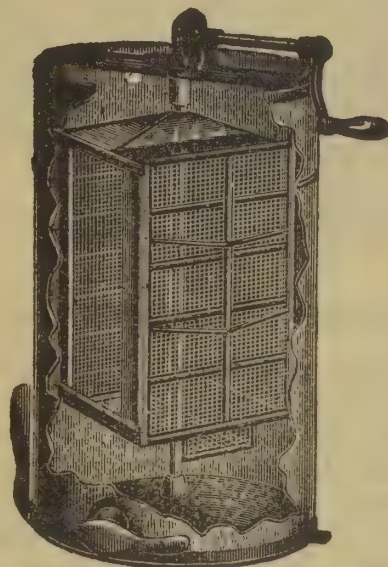
Cowan Rapid Reversible Extractor.

This machine will handle the product of large apiaries and yet is comparatively small and light. It is a reversible machine and the combs may be extracted on both sides without removing them from the tank.

We can also furnish the four-frame machine and, if there is a large amount of extracting to do, we recommend the larger size.

The Novice

For those who want a small, light machine, moderate in price, the Novice is a good one. It is a non-reversible, two-frame machine; that is, the frames must be pulled clear out of the extractor by hand, reversed in the air, and put back into the baskets, the other side to. For apiaries of over 25 colonies we recommend the Cowan reversible machine.



Novice Extractor.

Lewis-Markle 4 and 8-frame Power Extractors.

We have two of these machines for our own apiaries and find that they have greatly reduced the cost of our extracting. We consider them the most perfect machine of their type. The machinery is all under the tank and the baskets and tank easily remove for cleaning. The baskets are automatically reversible at high speed and they are fastened at an angle to the tank, giving a vacuum action which thoroughly empties the cells of all honey. It is remarkably simple to operate and extracts very fast. We do not hesitate to

recommend this machine as the cleanest, neatest and most up-to-date power extractor now on the market. Write for booklet.

Price List of Extractors

5—Two-frame Novice for frames not over 9½x18½ inches, top-bar 20 in.	\$28.00
9—Two-frame Novice for frames not over 13x18	35.00
15—Two-frame Cowan Reversible for two Langstroth frames	38.00
17—Two-frame Cowan Reversible for two frames up to 12 in. deep	42.00
20—Cowan Reversible, suitable for four Dadant extracting frames	55.00
25—Four-frame Automatic for four Langstroth frames (hand gear)	75.00
25MD—4-basket 13½ in. Aut. for 8 Mod. Dadant shallow frames (hand)	112.00
Lewis-Markle—Eight-frame Automatic Power (for 8 Langstroth frames)	235.00
Lewis-Markle—Four-frame Automatic Power (for 4 Langstroth frames)	155.00
Lewis-Markle—Four-frame Automatic Power, with 12-inch baskets	160.00
Lewis-Markle—Four-frame Automatic Power, 14-inch baskets	165.00
¾-inch Honey Pump with pulleys	19.00
1½ h. p. water-cooled engine	55.00

We can furnish any other size extractor made. Write for prices.



Tools for Extracting



Dadant Cappings Can.

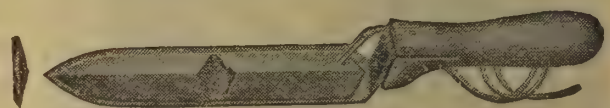
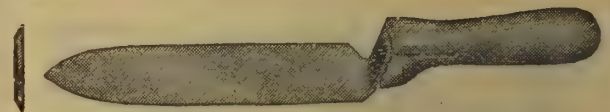
These consist of two cans, one telescoping into the other. The upper can holds the cappings and the honey percolates through the screened bottom and accumulates. After draining for several days the cappings may be removed from the upper can and the honey drawn off from below. If the cappings are frequently stirred the can will hold the cappings from three or four thousand pounds of honey.

The cans are rigidly constructed of galvanized sheet iron, which will not discolor the honey. They are the kind we use in all of our apiary work and they have a larger capacity than any other can we have tried.

Price, each, 24 inches diameter ----- \$19.00

Genuine Bingham Honey Uncapping Knives.

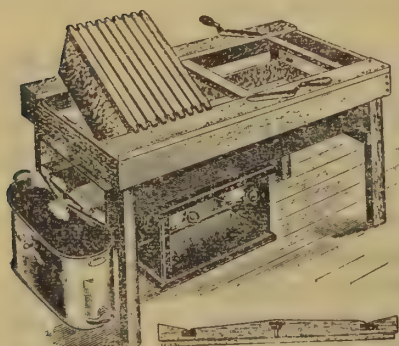
An uncapping knife should fit the hand so that the operator can use it a whole day and not become tired. We have found the Bingham knife the best in this respect. The steam heated knife is the most satisfactory when extracting a large quantity of honey. For small lots, especially in warm weather, the plain knives will do the work.



Standard length 8½ inches, weight, packed, 20 oz., each -----	\$1.35
Extra long, 10 inches, weight, packed, 24 oz., each -----	1.50
Steam heated, with 3 ft. tubing, weight, packed, 36 oz. -----	4.50

Lewis Cappings Melter.

HONEY DRAINS AT ONCE THROUGH GROOVES—NEVER SCORCHES.
NO WAITING FOR CAPPINGS TO MELT WHILE EXTRACTING.
THE BIGGEST IMPROVEMENT IN CAPPINGS MELTERS IN YEARS.
ELECTRICALLY WELDED—WATER JACKETED.



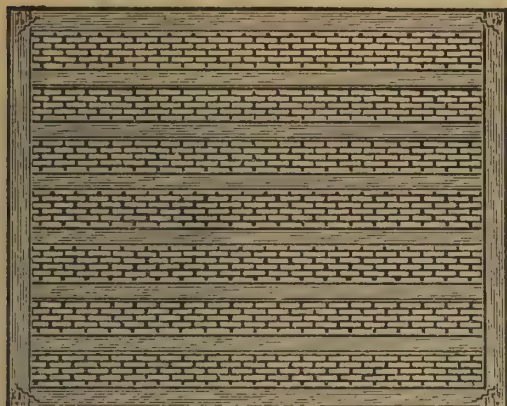
Lewis Cappings Melter—No
Scorched Honey from
Cappings in ex-
tracting.

The biggest feature of this melter is that the honey drains at once through the grooves and does not scorch. There is also sufficient surface to keep the cappings out of the way all the time. The illustration shows the table, collecting tank and oil stove. Prices are as follows:

Lewis Cappings Melter with table, in flat -----	\$27.00
Collecting tank used with melter -----	5.60
Two-burner oil stove (Perfection) -----	9.00
One-burner oil stove (Perfection) wt. 13 lbs. -----	6.50
Steam Generator (copper with safety valve) wt. 2½ lbs. -----	2.50
Alexander Honey Strainer, weight 5 lbs. -----	6.00



Queen Excluding Honeyboards, etc.



Wood and Zinc Excluder

This is a substantial pattern made of wood and zinc with wide spaces of zinc to give plenty of passageway. It has been brushed with wire, so that all perforations are smooth, and there are no burrs to prevent the ready passage of bees. It is an excluder we can highly recommend.

In the production of extracted honey with Standard Langstroth equipment, especially with deep supers, a queen excluding honeyboard is generally used to keep the queen from laying in the extracting combs.



Brushed edges make easy passage.

Price List of Queen Excluding Honey Boards.

STYLE—COMPLETE, READY FOR USE.

	1	50	Wt. of 10
Wood and Zinc Excluder—for 8-frame width hive	\$.65	\$31.50	12½ lbs.
Wood and Zinc Excluder—for 10-frame width hive	.75	36.50	15 lbs.
Wood and Zinc Excluder for Modified Dadant	1.00	48.75	23 lbs.
Wood Bound Zinc Excluder—for 8-frame width hive	.70	34.00	10 lbs.
Wood Bound Zinc Excluder—for 10-frame width hive	.72	35.00	11 lbs.
Wood Bound Zinc Excluder—for Modified Dadant hive	.98	47.75	20 lbs.
Unbound Zinc Excluder—for 8-frame width hive 14x19½	.35	16.75	7 lbs.
Unbound Zinc Excluder—for 10-frame width hive, 16x20	.40	19.00	8 lbs.

Full sheets, 32x96 in. \$3.75 each

Pieces cut to order..... per square foot, 30c

In ordering be sure to state whether boards are wanted for 8-frame or 10-frame hives.

Honey Storage Tanks.

Strong, well-made tanks for honey last the longest, and are the cheapest in the end. We offer such tanks of galvanized iron, with honey-gate, in several sizes, as follows:

Capacity—	Diam.	Height.	Ship Wt.	Price.
30 gal.—Storage tank	18 in.	30 in.	44 lbs.	\$13.20
60 gal.—Storage tank	23 in.	36 in.	60 lbs.	18.80
100 gal.—Storage tank	29 in.	36 in.	90 lbs.	24.60
150 gal.—Storage tank	38 in.	32 in.	160 lbs.	34.60

Perfection Honey Gates



These are excellent gates for drawing honey from barrels or tanks into small cans or glass jars. Furnished for wood barrels or for steel tanks. Wood sent unless otherwise ordered.

1¼-inch, \$1.25 each. Mailing weight 3 pounds.

Daisy Wheelbarrows.—Price each \$9.00. This is a wheelbarrow we can highly recommend. It will carry 500 pounds and has springs to take up jars.

Bee Moth Fumigator.—(Paradichlorobenzine—Non-inflammable). 2¼-lb. can, \$1.25. Shipping weight 3½ pounds.

For fumigating stored combs. It forms a gas heavier than air and when placed at the top of a stack of hives the gas filters down through the combs, destroying moths and larvæ, if used in sufficient amounts. Directions with package.



Bee Escapes and Bee Feeders



Lewis Four-Way Bee-Escape

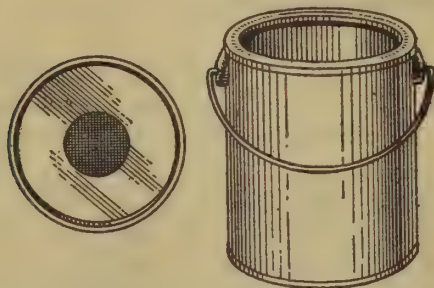
Price, each, 18c, postpaid.



No beekeeper can afford to be without bee escapes. In taking off honey they are great labor savers. They avoid shaking heavy supers to get the bees out and do away with the necessity of smoking them, and there is no need of receiving a single sting. Each escape is used in connection with a bee-escape board, as shown opposite. These escapes are sold separately, as listed above, or with the board.

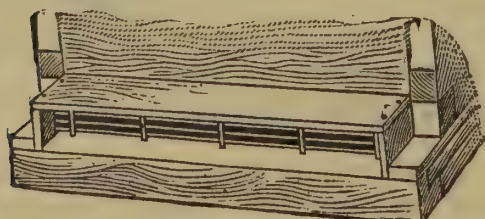
Lewis-Bonney Pepperbox Feeder.

A substantial feeder made with a metal body similar to a honey pail and with a friction-top cover in which perforated brass fine-mesh screen has been soldered into place. This feeder is ideal to use for feeding above the cluster, either for stimulation or for fall feeding. Weight of ten, 10 pounds.



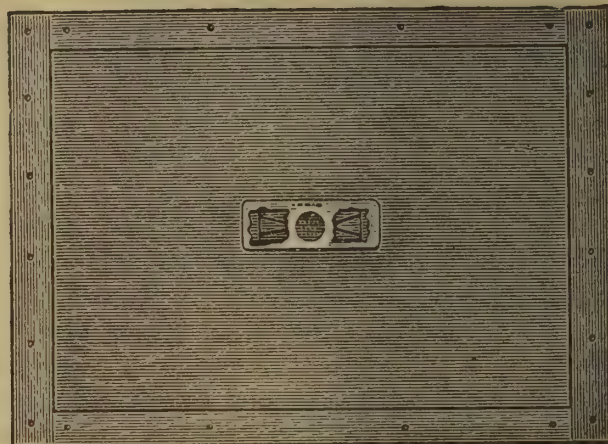
Lewis-Bonney Pepper Box, ½ gal size	30c
Lewis-Bonney Feeder Caps, ½-gal. size	15c
Lewis-Bonney Feeder Caps, 1-gal. size	18c

Bee Entrance Guard.



Price each 30 cents. Weight each 8 oz. With Zinc front instead of wire, 5c each less.

Bee-Escape With Board.



Price, each, nailed, 58c. Wt., each, 2 lbs
Modified Dadant size, nailed, 64c each.
Price, each, without escape, see inner cover.

Always state whether for 8 or 10-frame hive.

Honey House Escape.

Price, each, 23c, postpaid.

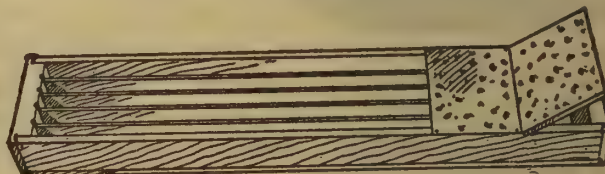
Boardman Entrance Feeder.

Price nailed (with cap only) ----- 25c

Mailing weight, one pound each.

Doolittle Division Board Feeder

Price in flat ----- 45c
Weight of ten, 15 pounds.



Alexander Feeder.

With metal pan, each ----- 70c
Mailing weight, 2 pounds.

A good serviceable feeder, moderate in price and convenient to fill; fits under lower part of hive.



Bee Smokers and Smoker Fuel



We keep a large assortment of bee smokers, since they are of such importance in the apiary. The Bingham bee smoker has been nearly forty years on the market and it is the standard in this and many foreign countries. It leads in such features as metal legs, metal binding on the bellows, turned edges, and a new valve spring in the bellows valve, steel fire grate with sufficient openings for air and draft. Unlike other smokers, it is provided with a valve in the bellows, which makes it respond to the most delicate touch, giving as much or as little smoke as is needed. A perfect bellows cannot be made without a valve. The connecting blast tube is so arranged that it gives a strong blast, and it never back-fires. The larger sizes are best, as they hold more fuel, require filling less often and are specially recommended for those who work with their bees several hours at a time.



We especially recommend the “Big Smoke” with shield, which has won prizes in competition with other smokers for steady service, as it remains lighted for a long time and holds a large quantity of fuel.

Price List of Bingham Smokers.

	Sizes of Barrel	Price of One	Mailing Weight of one
Big Smoke with shield	4x10 in.	\$2.25	3 lbs.
Big Smoke (no shield)	4x10 in.	1.75	3 lbs.
Smoke Engine	4 in.	1.50	2 lbs.
Doctor	3½ in.	1.25	1¾ lbs.
Conqueror	3 in.	1.00	1½ lbs.
Little Wonder	2 in.	.90	1¼ lbs.

The first three sizes have the hinged cover, the smaller sizes are not hinged.
Big Smoke and Smoke Engine of heavy copper at \$1.00 each extra. Be sure to add POSTAGE if Smokers are wanted by mail.

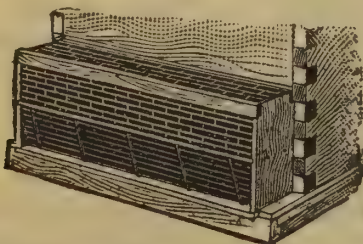
SMOKER FUEL

We are offering something new this year in our prepared smoker fuel. This consists of rolls of chemically treated material which are perfectly safe to use, but which catch fire at the touch of a match and burn steadily until entirely consumed. They are excellent to start a fire in the smoker, being like a hot coal and easily ignite any ordinary smoker material put on top of them.

Those who appreciate the difficulty of successfully lighting a smoker will greatly enjoy the use of our new prepared fuel. It is certainly worth trying. We use it extensively in our own apiaries and find it a great help.

Price: 25c for 12 rolls. Mailing weight, 1 pound.

Alley's Drone and Queen Trap.



Price each 90 cents. Weight each, 1 lb.



Bee Veils



Excelsior Bee Veil.

Tulle Veil.

These veils are made of the best imported tulle, manufactured expressly for us, in Europe. The color is black, as that is the only color that can be seen through without injury to the eyes. The style "A" veil is made entirely of cotton.

The style "B" veil has a silk face which is so fine that the wearer will often forget he has a veil on. We like to use either the silk face or the all silk veil when looking for eggs, disease, or for other close work about the hives.

Our tulle veils are made with a rubber cord at the top and one at the bottom, so that the veil can be slipped over the crown of any hat and fit snugly around the collar, although not tight enough to be uncomfortable. This makes it possible to slip the veil on or off at a moment's notice, which is a very desirable feature. They can be folded up and carried in the pocket, taking no more room than a pocket handkerchief.



Imported Tulle Veil.

Prices of Veils.

By Mail or Express, Prepaid.

Style A, cotton tulle veil	-----	\$.90
Style B, same, with silk face, 15x12. (The kind we use)	-----	1.00
Style D veil, all silk	-----	1.25
Mosquito bar veils	-----	.50
Globe bee veil	-----	1.25
Net for Globe veil	-----	1.00
Excelsior veil	-----	1.25
Alexander wire veil	-----	1.00

Material to Make Veils.

Many people prefer to buy the material and make their own bee veils. We always keep a supply of veiling in stock and are prepared to furnish same promptly. We carry but one color—black.

By mail, postpaid—

Cotton tulle	-----	per yard, \$.35
Silk tulle	-----	per yard, 1.00
Rubber cord for one veil	-----	.12
Six yards rubber cord	-----	.50

Special prices on larger lots. Samples of cotton and silk veiling will be sent free on application.



Foundation Tools

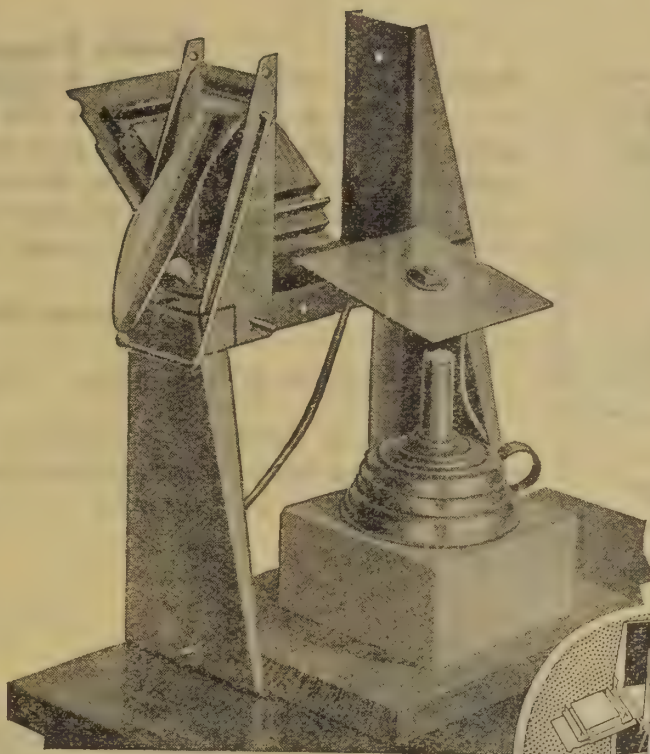


WOODMAN'S SECTION FIXER

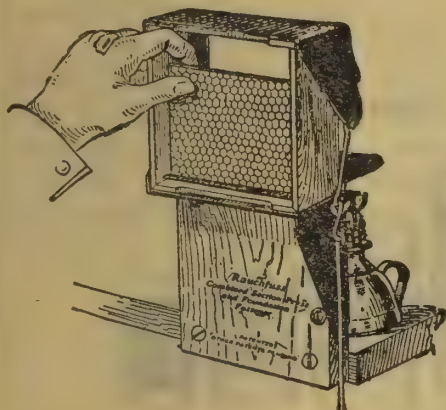
A Combined Section Press and Foundation Fastener of Pressed Steel Construction.

This machine folds or forms comb honey sections and fastens top and bottom comb foundation starters all at one handling, thus saving a great amount of labor. It can be arranged for any width, $4\frac{1}{4} \times 4\frac{1}{4}$ or 4×5 section. Other sizes 50c extra for special adjustment. Top and bottom starters insure the comb firmly attached to all four sides, a requirement to grade fancy. Send for special circular.

Price, with lamp, \$5.70. Weight 4 lbs. 10 oz. Without lamp, \$5.20. Weight 4 lbs. 4 oz. Extra form blocks, 50c each. Extra for odd size, 50c.



The Rauchfuss Combined Section Press and Foundation Fastener



Price \$7.00. Mailing weight 4 lbs.

Folds the sections perfectly and fastens the foundation exactly in the center of the section so securely it will not come off.

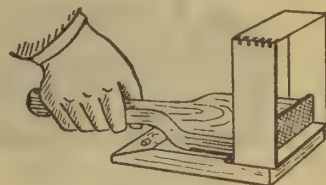
Made of steel, every part die cut.
Lamp burns denatured alcohol.

Parker Fastener.

Price, each, 40c.

Mailing weight, 1 lb.

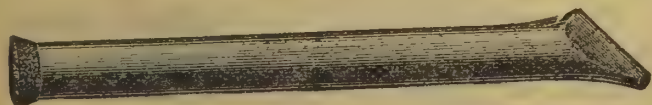
A simple and low priced device for the small beekeeper, for fastening starters in $4\frac{1}{4} \times 4\frac{1}{4}$ sections.



Van Deusen Wax-Tube Fastener.

Price each 35c. Weight 5 oz.

This is handy for fastening foundation to plain topbars or in topbars with single grooves, such as those in extracting supers. It feeds a fine stream of hot wax between the foundation edge and the wood, cementing them together.

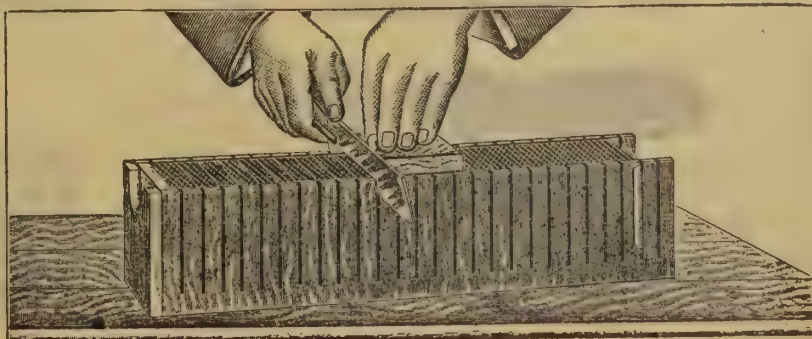


Rauchfuss Foundation Cutting Box

Price each, with knife, \$1.75.

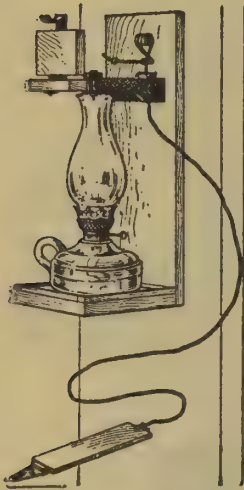
Weight, 3 lbs.

For surplus foundation $3\frac{7}{8}$, $4\frac{1}{8}$ and $4\frac{7}{8}$ inches wide. The regular $3\frac{7}{8}$ inch wide will be sent unless otherwise ordered. Up to forty sheets may be cut at one time and all pieces will be perfect.





Foundation Tools



Lewis Foundation Fastener.

Price, each, without lamp, by freight, \$3.35. Mailing weight, 9 lbs.

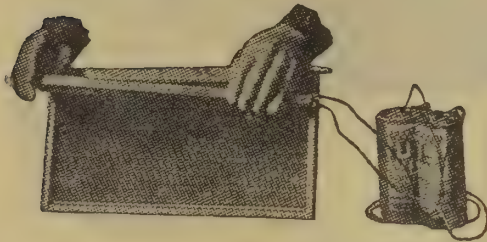
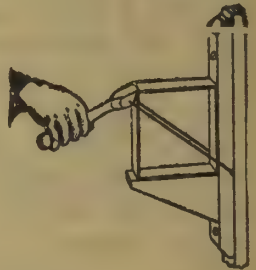
This is a good machine for fastening starters in sections. The price is low and the sale of it is increasing rapidly. It can be securely fastened to a wall or table, thus materially assisting in the work and avoiding the danger of overturning the lamp.

EXTRA LAMPS—For any machine listed on pages 32 and 33, 40 cents.

Handy Section Press.

Price each, 80 cents. Weight 15 oz.

This is a device for folding sections and may be attached to a wall or bench and is handy for a small quantity of sections.



Electric Embedder.

Price, without batteries, \$1.00. Weight 1 lb. With two dry cells, \$2.00. Weight, 6 lbs.

The two dry cells will embed 4 wires in 200 to 500 frames. Full directions are given with each embedder, for making home-made transformers for use with city current.

Lewis Frame Wiring Device.



Price each \$2.75. Weight 14 lbs.

A device for wiring brood frames by hand, enabling providing tighter wires without kinks, which is difficult to obtain when doing the work by hand.

Spur Wire Embedder.



Price 30 cents. Weight 4 oz.
For embedding wire in foundation.

Tinned Wire



This wire is used in wiring brood frames to hold foundation in place. One pound will wire about 240 Langstroth frames with four wires in each frame. The three-fourths ounce spool is the right size for one hive of 8 or 10 frames.

Price List of Tinned Wire

Size Spools Furnished	Price Each	Weight ea.
3/4-oz spools	\$.10	3 oz.
1/4-lb. spools	.19	6 oz.
1/2-lb. spools	.30	10 oz.
1-lb. spools	.55	18 oz.
5-lb. spools	2.10	6 1/4 lbs.

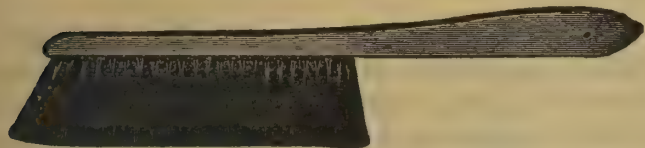


Apiary Tools



The Bristle Bee-Brush.

Price, each, 28c. Weight, 7 oz.



For brushing bees off combs. The strands are soft and pliable and the brush is long enough to reach across a Langstroth size comb so that one or two sweeps gets off all bees.

The Coggsall Bee-Brush.

Price, each 25c. Weight, 6 ounces.

The above is probably one of the oldest types of bee brushes on the market.

Steel Hive Tool.

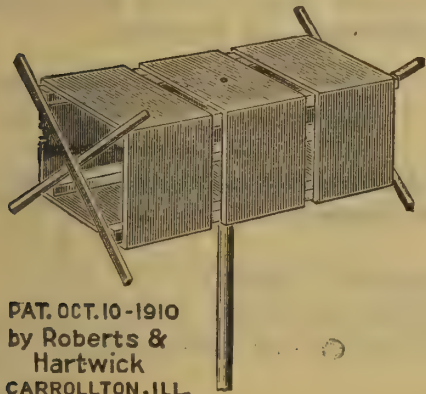
Price, each, 7-inch size, 50c. Weight, 6 ounces.



This is a very handy tool for use in the apiary. As shown in the above illustration, can be used as a scraper or a pry. It is made of a good quality of steel, finished in very neat shape. We sell a great many of these every year and you will find it well worth the money. The tool we furnish is the best that can be made.

Roberts Swarming Box

(Patented)



PAT. OCT. 10-1910
by Roberts &
Hartwick
CARROLLTON, ILL.

This is a box for catching swarms and is light and easily handled. Bees enter it readily. Made entirely of wood.

Price without pole, \$1.00; with pole \$2.85. Weight 2 pounds.

Canvas Bee-Gloves.

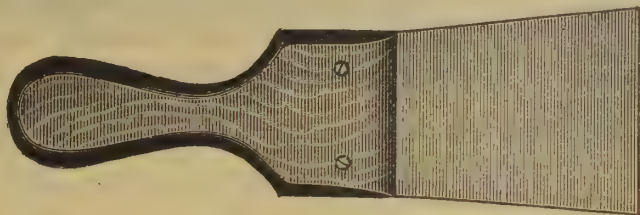
Large, medium or small. Price per pair 95c. Weight, 9 ounces.



Furnished either with or without fingers. Made with long sleeves and of heavy drilling. The material is practically sting proof and is strongly stitched at all seams. Gloves with fingers and thumbs complete are the most popular.

Hive Scrapers.

Price, each, 20c. Weight, 7 ounces.



This is a very handy tool for scraping hives, supers, bottom-boards, etc. It has a good, flat steel blade and a strong wooden handle. We sell a great many of these every year.

Woodman's Wonder Swarm Catcher.

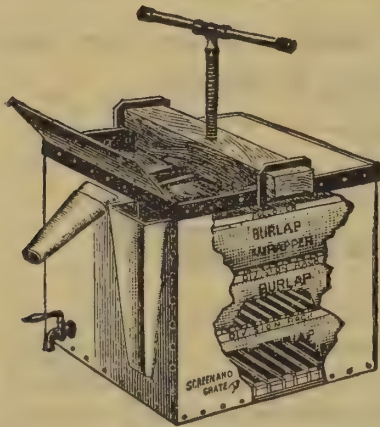


This is a great improvement over the old pyramid shaped catcher. The Wonder is tent-shaped and allows the use of a comb inside the basket to keep the bees contentedly in the catcher until one is ready to hive them.

Price, with pole, \$5.10; without pole \$3.25. Mailing weight, 6 pounds.



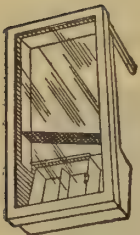
Beeswax Presses and Extractors



Hersher Wax Press.

In our opinion, this is the best press made for extracting wax from combs, cappings or slumgum. We have been using a number of them, under steam pressure, for several years to render combs and refuse for our customers and we find that it extracts within 1 per cent of all the wax. Beekeepers having 200 colonies of bees or more and wishing to extract their own wax, should, by all means, buy this machine. Those who wish to be relieved of this unpleasant work, however, will refer to our terms on rendering beeswax, on page 10.

Price each, \$40.60. Weight 150 pounds.



Rauchfuss Solar Wax Extractor.

This machine is for melting combs, wax scraps and burr combs by the sun's rays and simply requires filling and emptying. We consider the Rauchfuss extractor the best for this purpose.

Price each, \$14.00. Weight 30 pounds.

Lewis Wax Press.

The Lewis Wax Press permits the extracting of wax under hot water and by pressure, the only correct way to secure the maximum of wax from old combs. It is fitted with galvanized tank and contains a wire mesh basket which suspends from the cross-bar at the tank top and in which the combs to be extracted are placed. The combs may be put inside of an ordinary burlap sack and the hot water poured in or heated after the combs are in place. By screwing down the metal spider, pressure is exerted on the combs under the surface of the water. The extracted wax floats at once to the surface of the water and may be poured off into another vessel to harden. This machine is made very substantially and is strong enough for the work. It should last a life time. It holds from 15 to 25 pounds of wax from old combs. Price each, complete, \$12.00. Weight, 50 pounds.



1	
Hive	B
Body	
Hive	A
Body	

Management to Get Big Colonies and Keep Down Swarming in Producing Extracted Honey.

(With ten and eight-frame Langstroth hives).

Before the honeyflow, give the colony two hive bodies for brood rearing, and see that the food stores are plentiful. Feed sugar syrup if necessary.

B
A
Extracting Super Queen Excluder
New Brood Chamber

At the time of the flow, or when queen cells are just starting, put the brood (A and B) over the super and cut out queen cells. Put on an excluder and confine the queen to a third hive body of drawn combs below.



Shipping Cases for Comb Honey



Corrugated Comb Honey Shipping Cases.

This is the Crane section honey shipping case made of heavy corrugated cardboard. Mr. Crane, one of America's foremost comb honey producers, has shipped over 150 tons of comb honey successfully in these cases during the past fifteen years.

We can highly recommend them as they are real shipping cases and not combination show cases. A corrugated mat at the bottom receives the drip and the partitions make the case strong and help to break shocks. The low price at which they are offered will be a welcome item to comb honey producers.

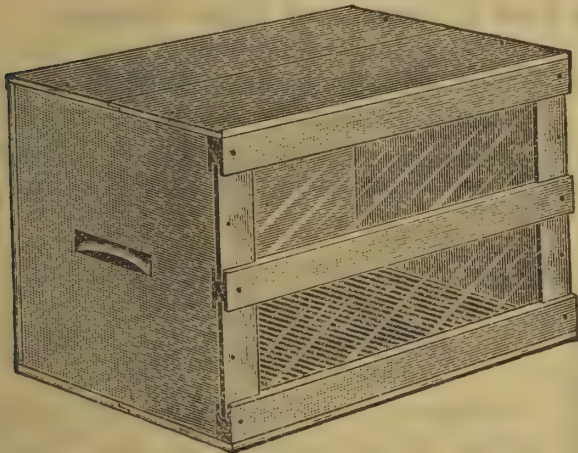
Packed in bundles of ten cases, each case holding 24 sections.

Price of ten, \$2.25. Mailing weight, 30 pounds.

Made in three sizes only. For $4\frac{1}{4} \times 1\frac{7}{8}$, $4\frac{1}{4} \times 1\frac{1}{2}$ and $4 \times 5 \times 1\frac{3}{8}$ sections.



The Crane Case.



Double Tier Case.

For two tiers of twelve sections each, with corrugated cardboard and paper for packing. A strong, compact case in every way.

We keep this style in the $4\frac{1}{4} \times 1\frac{7}{8}$ size only.

Single Tier Case.

This is the regular style, equipped with corrugated and plain paper for packing. It is commonly used east of Kansas, Nebraska and Montana, but we think the double tier case better, both in strength and looks.

Price List of Shipping Cases.

IN ORDERING GIVE FULL DESCRIPTION AS BELOW.	In flat with Nails With 2-inch Glass	
	10	100
24-lb. double tier for $4\frac{1}{4} \times 1\frac{7}{8}$ sections	\$5.80	\$26.35
24-lb. single tier for $4\frac{1}{4} \times 1\frac{7}{8}$ sections	5.70	25.50
24-lb. single tier for $4\frac{1}{4} \times 1\frac{1}{2}$ sections	5.10	22.70
24-lb. single tier for $4 \times 5 \times 1\frac{3}{8}$ sections	5.10	22.70
24-lb. single tier for $3\frac{5}{8} \times 5 \times 1\frac{1}{2}$ sections	5.10	22.70

Safety cartons for $4\frac{1}{4} \times 1\frac{7}{8}$ sections, 100 for \$1.25; 1,000 for \$12.00.

To Ship Comb Honey.

In shipping comb honey by freight in less than carload lots the cases must be packed in carriers with at least four inches of cushioning material underneath. The corrugated cases should be packed six or less to the carrier. The Consolidated Classification Committee requires that all comb honey be shipped this way to take the present first-class rate. If not so packed double first-class will be charged.



Glass Containers—Aluminum Combs



GLASSES—CLEAR FLINT GLASS.

Write for Catalog of Honey Labels.

Labels are not furnished on glass as shown, but should be bought separately.

Jars are very popular for packing honey, but they must be clear glass, such as we furnish, in order to properly display the color of the honey packed in them.

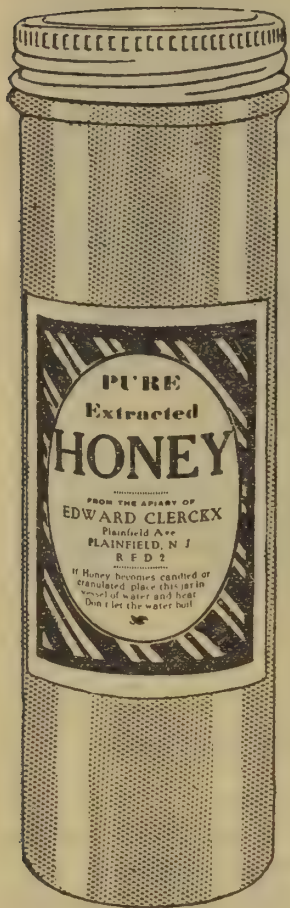
The 16-oz. jars are equipped with lacquered screw caps and wax liners and packed in reshipping cases of 2 dozen. Lids and waxed liners furnished with jars at prices below.

“CAPACITY” as given is for HONEY and not for other liquids.

The jelly glasses are equipped with plain slip caps and waxed papers and make good, tight packages.

Price List of Jars and Jelly Glasses.

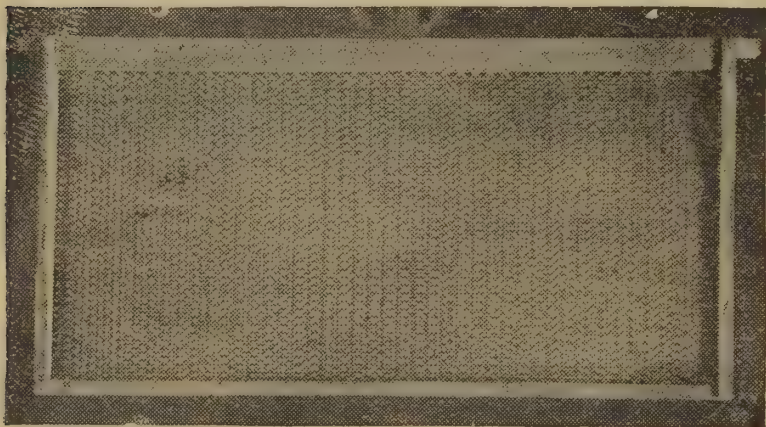
Size	No. in Case.	1 Case or more.
16 ounces -----	2 doz.	\$1.55
6 ounces -----	2 doz	.88
Above shipped from Hamilton, Ill., or Keokuk, Ia. only.		



Tall 16-oz.
Capacity 16 oz.
Screw Cap Jar.



Jelly Glass
6 oz.
Capacity.



A Langstroth Aluminum Comb.

Aluminum Honey Combs.

These combs made up of crimped strips of aluminum so put together as to make the hexagonal cell of the bee.

We offer these to our customers that they may have opportunity of testing them out themselves under varying conditions and in different systems of management.

Price List of Aluminum Combs.

	Each.	Ten.
Standard Langstroth (Hoffman brood-frame) size -----	\$.55	\$5.00
Shallow extracting (5 3/8 inches deep) size -----	.50	4.50
Modified Dadant brood-frame size -----	.65	6.00



HONEYWARE

Lithographed Honey Packages in Four Colors.

Wonderfully attractive cans and pails in red, green, black and gold. Of highest quality tin with locked and cemented seams; inside of can and lid coated with a sanitary food enamel. Every Honeyware pail or can is a permanent advertisement for your honey.

Sample can sent to any address, post-paid, on receipt of 25c. Customer's name and address printed on cans or pails, free of charge, in lots of 100 or more.

Prices, F. O. B. Factory.

	100	500
10-lb. pails -----	\$19.00	\$93.75
5-lb. pails -----	15.00	71.75
2½-lb. pails -----	8.00	39.50

These prices are less than a cent a pound more than those for plain pails with labels.

Plain Friction Top Pails and Cans.

Of first-class material, well soldered. Top fits perfectly but is easily removed. Shipped in dust-proof cartons of 50 each, including bails and lids, or in cases of 24, 12, or 6, made of strong lumber.

Since we can contract for several cars of tin cans a season, we are able to quote the very lowest price. See page 40 for labels.

Price List of Friction Top Cans and Pails.

2½-pound Size (No bail).

In lots of 10 or more, each -----	\$.06
Per carton of 100 -----	4.40
Per case of 24 -----	1.40

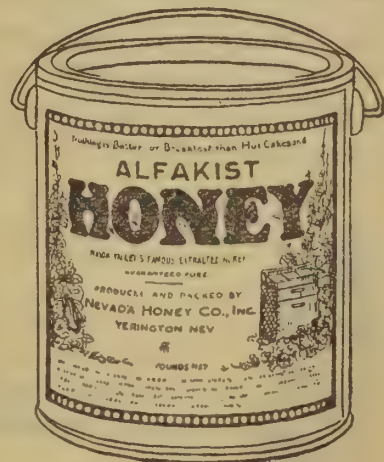
5-pound size (with bail)

In lots of 10 or more, each -----	.10
In cartons of 50 -----	3.50
Per case of 12 -----	1.20

10-pound size (with bail).

In lots of 10 or more, each -----	.15
Per carton of 50 -----	5.00
Per case of 6 -----	.95

Above prices are for shipment from Hamilton, Ill., or Keokuk, Iowa, only.



Send for Honey Label Catalog.

NOTE

On account of the changeable market price of tin plate, these prices are subject to change without notice, and we therefore suggest that you send for cans at prices quoted and we will notify you if prices have advanced or fallen.

WRITE FOR SPECIAL PRICE LIST.



Honey Cans, Sample Cases, Cartons



Honey Cans with Screw Tops.

For packing honey in large quantities these cans are convenient and low in price. We call attention to the five-gallon size, packed in good substantial cases. These cases are well made of three-eighths-inch lumber with seven-eighth-inch heads and are cleated to make the strongest possible package.

Five-gallon square cans: capacity 60 pounds each.
One-gallon square cans: capacity 12 pounds.

Price List of Square Cans with 1 3/4-inch Screw Caps.

Size.	Cans per Case.	1 Case or More.	10 Cases
Five gallon -----	1	\$.85	\$ 8.00
Five gallon -----	2	1.30	12.50
One gallon -----		Each 30c; 10 for	2.50
One gallon -----	100	19.60	
One-half gallon -----		Each 25c; 10 for	2.00
One half gallon -----	100	14.70	

Above prices are all F. O. B. Hamilton, Ill., or Keokuk, Iowa, at customer's choice.

WRITE FOR SPECIAL PRICES.

Parcels Post Honey Cans and Cases.

For shipping honey by parcels post. Ten and five-pound screw cap cans, provided with double corrugated cases, thoroughly protecting the can. Approved by postal authorities.



Prices.

	Each.	10
6-lb. -----	\$.22	\$2.00
12-lb. -----	.30	2.70



Honey Sample Cases.

A heavy mailing tube containing a wide-mouth bottle, for mailing samples to prospective honey customers. They are strong and conform to postal regulations. Each case holds 1 1/2 ounces of honey and weighs 4 ounces when full.

Price each, 10c. Weight, 2 1/2 ounces.

Comb Honey Cartons.

To bring the highest market price, comb honey should be packed in cartons. Each section is thus sealed tightly and kept free from dust and dirt.

Price.

	100	1000
Plain cartons -----	\$1.10	\$9.25
Printed cartons -----	1.25	10.25
Printing name and address (extra) -----	1.50	3.00

Mailing weight of 100, 6 lbs; 4 1/4 x 4 1/4 size only.



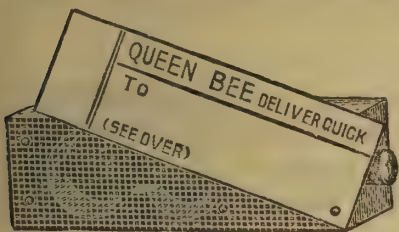


Packages for Shipping Queens and Bees



PRICES OF EMPTY PACKAGES FOR SHIPPING BEES

	Each	Lots of 50	Wt. of 10
Two-frame nucleus box, in flat -----	60c	\$29.00	36 lbs.
Two-pound packages for bees, in flat -----	70c	31.00	23 lbs.
Three-pound packages for bees, in flat -----	75c	33.00	24 lbs.



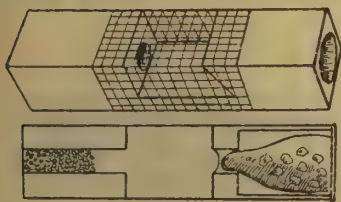
Benton Mailing Cage.

The Benton mailing cage is the one used almost universally in the shipping of queens in the mails. The small size is for shipping short distances, not over a thousand miles. The long distance Benton has a much larger capacity and will carry queens safely for much longer distances.

	Complete Provisioned		Without Candy	Block Bare
	10	100	100	100
Small Benton -----	\$.75	\$ 7.00	\$4.50	\$3.00
Long Distance Benton -----	1.10	10.00	6.50	4.00

Benton cage-covers printed both sides, name and address, for \$2.00 per 100, or \$6.50 per 1,000.

Rauchfuss Queen Cage and Cell Protector.



Price each, 6c; 10, 50c; 100, \$4.90. Weight of 10, 8 oz.

These always give excellent satisfaction. To use as cell protector, put queen cell in large opening so that the point of the cells will be exposed and cork or cover the hole over to protect the cell from the bees. The small hole at the lower end is to be filled with queen candy for the new queen to feed on after emergence.

Frames for holding the queen cages, in flat, 20c each; set up, 55c. Weight, each, 22 ounces.

Artificial Wax Cell Cups

For artificial queen rearing.
37c per 100. Weight per 100 3 ounces.

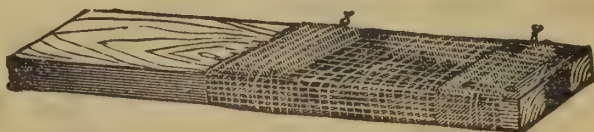
West Cell Protector and Spiral Cages.



Cell protectors, each 4c; 100, \$3.75. Weight, each 1 oz. Spiral cages, each, 7c; 100, \$5.75. Weight each, 1 oz.

These are excellent to slip ripe queen cells into when giving them to the bees to prevent the bees from destroying the cells.

Miller Queen Catcher and Introducing Cage.



Price, each, 20c. Weight, each, 1 oz.

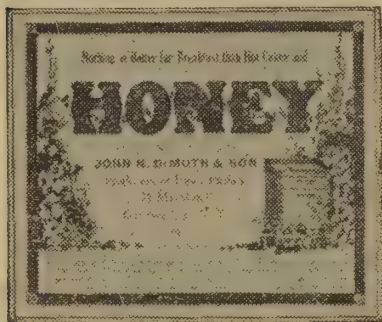
This is a very handy little device to have in the apiary.



Honey Selling Helps



On this page is listed a wide range of selling helps which will be found ideal aids in marketing crops of honey. Most of them have proved of value to us in our own marketing efforts.



Honey Labels—Stationery.

A good label is half of the sale. Our label printers are winning a reputation for distinctive and attractive work.

We also print a finely designed line of stationery for beekeepers. Send for catalog of labels and stationery, with prices.

Honey Circulars.

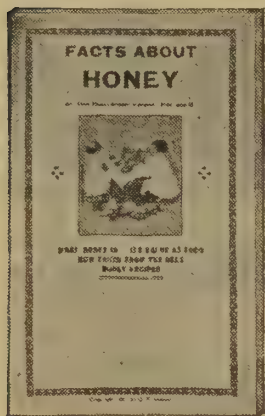
Honey Leaflet—Four pages; cover in five colors. Explains fully but briefly the value of honey, its uses, and gives a few recipes. Name and address of beekeeper with honey

prices, if desired. Fits ordinary envelope. Sample free. With beekeeper's name, etc., 500, \$7.50; 1,000, \$11.50; each additional 1,000, \$9.75. Postpaid.



Facts About Honey.

A larger and more complete book of 16 pages, well illustrated. Gives methods of producing, harvesting and handling honey, its value, uses, and recipes. Space on both front and back cover for address and prices. Less than 30, postpaid, 10c each; 30 copies, \$2.00; 100, not postpaid, \$3.50; 500, \$15.00; 1,000, \$28.00; each additional 1,000, \$25.00. Printing name and address and prices, 500 or less, \$1.50; 1,000 or more, \$3.00 per 1,000. Mailing weight, 6 pounds per 100 copies.



Window Display Placards.

A line we are successfully developing. Large, heavy cards in colors, with catchy phrasing and lively pictures showing honey in use, etc. For window and counter display in stores. Prices and complete information on request.

Outdoor Signs.

Durable metal signs—Wording and size: "Honey for Sale Next Farm," "Honey for Sale Here," 8x24 in., price 75c each. "Honey for Sale Here," 2 feet square, vitreous enamel; weatherproof. Price, each, \$3.50; 2 for \$6.50. Dark letters on light background.



Advertising Slides.

We can furnish lantern slides for moving picture house advertising with any wording, including picture, if latter is furnished. Price, each, 65 cents.

Newspaper Ads.

We have a set of 20 honey advertisements, column size, just right for newspaper use. Also a set of 25 honey talks in series; popular and entertaining stories about honey. Both prepared by specialists. Either set, 50 cents.

Rubber Stamps—Net Weights—Name and Address.

Net weights for sections—3 molding stamps, "Net weight not less than 12 ½ oz.," "Net weight not less than 11 oz.," "Net weight not less than 10 oz.," with self-inking pad. Price, postpaid, \$2.00.

Name and address—2 lines, 75c each; 3 lines, \$1.25 each; 4 lines, \$1.50 each. Ink pads, 60c.

Eat Honey Stickers.

Printed on bright red, gummed paper. For sticking on outside of envelopes, parcel post and express packages. Price per thousand, gummed, ready for use, 40 cents; per hundred, 20 cents.

Observation Hive.

For use in show windows and displays. One-frame size, complete with super; finely finished. Price, \$10.00.

Service Department

As an organization whose success results from the patronage and good will of others interested in beekeeping, we feel that a part of our efforts should be devoted to service which will contribute something to the upbuilding of the industry. Our Service Department is an attempt, therefore, to co-operate impartially with individuals and organizations who are, like ourselves, dependent on the forward progress of beekeeping for continued success.

G. H. Cale, in charge of this Department, has had a wide experience in educational and practical work in beekeeping. He also has charge of our own apiaries and knows the everyday problems of the beekeeper. While, at present, we are still feeling our way in this new venture, we hope that you will use the resources of the Department freely and consult it frequently in any of your problems. A two-cent stamp will carry your message. Write often.

LANTERN SLIDES AND MOVING PICTURES.

A series of several hundred lantern slides on bee anatomy, life history of the bee, apiary practices, honey production, marketing and selling.

Two 1,000-foot moving picture films, on "Bees, How They Live and Work," and "Keeping Bees at Work."

Beekeepers' Associations and other interested organizations may secure these free of charge, by payment of mailing costs. Sets of slides for permanent ownership furnished at cost.

"EVERY STEP" BOOKLETS.

Illustrated booklets, with new additions from time to time, on "Every Step" in apiary practices. Illustrations make the text plain. Present numbers:

- "Every Step with American Foulbrood."
 - "Every Step with European Foulbrood."
 - "Every Step with Package Bees."
 - "Every Step in Moving Bees."
 - "Every Step in Grading Honey."
 - "Every Step in Bottling Honey."
- Available at cost price—10c each.

CORRESPONDENCE COURSE IN BEEKEEPING.

A well developed course in beekeeping practice in a series of lessons designed to cover all phases of apiary management through the year. Based on "The Honeybee" as a text (see page 45). Text included with course. Monthly examinations provided and specially prepared aids to help individual needs. This offers an inexpensive way for the beginner to develop his apiary profitably and securely.

Enrollment cost \$5.00, based on the actual expense of conducting the work properly. Outline of course sent on request.

LECTURES AND DEMONSTRATIONS.

Associated with the American Bee Journal and Dadant & Sons, is a staff of men who are in constant demand for lecture and demonstration work for association meetings and field days. C. P. Dadant, Frank C. Pellett, and G. H. Cale are especially active in this work. Their efforts are strictly educational, with no relation to the selling of supplies. We have no strings to pull.

The services of these men are available to beekeepers' associations and other interested organizations by payment of travelling expenses only.

Queens and Package Bees



The amount of honey secured from any colony depends, to a large extent, upon the kind of queen that heads the colony. A good strong, Italian colony headed by a good queen, will produce a great deal more honey than indifferent stock headed by a poor queen.



In our own apiaries we make it a point to keep our colonies well requeened. A queen which has done two years service, in our opinion, has seen her best days, although, of course, some queens will do good work even through their third and fourth years. Making a practice, however, of requeening at

least every two years is good beekeeping, and the up-to-date beekeeper, as a rule, will see that this method is followed. Any queen not up to standard should be replaced at once.

ITALIAN QUEENS.

We are well equipped for queen rearing and pride ourselves on being able to produce a fine quality of three-banded Italian queens. These are from stock which we use in rearing queens for our own apiaries of several hundred colonies. We make no unreasonable claims for our bees but, since we are ourselves large honey producers, we are not satisfied with anything but the very best breeding stock obtainable.

We guarantee safe arrival and satisfaction, but cannot, of course, guarantee safe introduction, full instructions for which come with each shipment. If a queen arrives dead and is returned to us in her cage, intact, we will gladly replace her without charge.

In requeening we advise our customers to order well ahead of time and not remove the old queens from their colonies until the new ones are at hand.

Prices of Queens.

	May	June	July to Oct.
1 Untested -----	\$ 2.00	\$ 1.50	\$ 1.00
12 Untested -----	23.00	17.00	11.25
1 Tested -----	4.00	3.50	2.50
12 Tested -----	40.00	39.00	28.00

Send for special prices on lots of 24 or more.

An untested queen is one which has been mated but which has not been kept long enough to determine whether her bees are all uniformly marked. A tested queen is one whose offspring show good markings.

We advise the purchase of untested queens unless breeding stock is desired. We have a few good breeding queens which have been carefully selected on which we will gladly quote prices.

BEEES IN PACKAGES.

The purchase of bees in packages with queens is one of the cheapest ways to buy bees. The purchase of a beehive, in the flat, and a two or three-pound package with queen, represents a very small outlay. If the packages are received early in the season, they will often build up into strong colonies and, in favorable years, may produce a considerable amount of surplus honey the first season.

We give full directions for the proper care of packages.

Package bees do not carry disease, and insure good, healthy stock. We are especially equipped, this year, to give the very best service in package shipments and all of our yards are thoroughly inspected before shipments of any kind are made.

Prices.

	May and June	July to Sept.
	1	1
2-lb package with untested queen -----	\$5.50	\$4.50
3-lb. package with untested queen -----	7.50	6.00

Nuclei and Full Colonies



Nuclei.

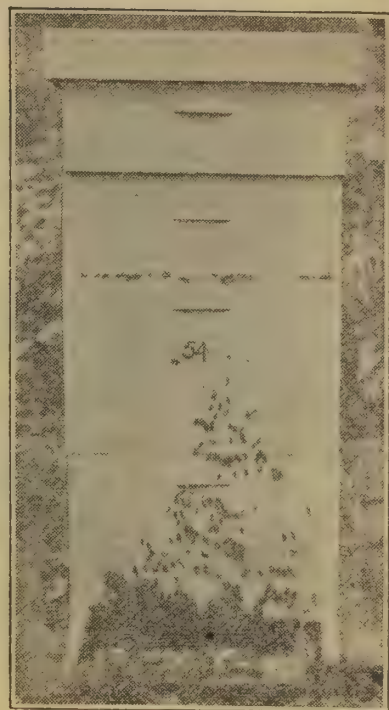
A nucleus consists of several frames with brood, honey, bees and queen. It is, in reality, a small hive of bees which may be put into a large hive as soon as it is received by the customer. From this nucleus a full colony will soon be built up, under favorable conditions.

We make a specialty of three-frame nuclei for Modified hives. These nuclei are of exceptional strength and do remarkably well when given the proper attention. Complete and detailed instructions are sent with each nucleus and are of great help in giving the bees proper care. In the average season, we have found these large nuclei superior to package bees for results in the same season. In the Modified Dadant nucleus we can insure our customers something exceptionally serviceable which offers an easy way for starting with the large hives which are receiving such favorable support from so many of the larger beekeepers.

Prices of Nuclei.

Langstroth size. Modified Dadant.

2-frame nucleus, with untested queen---	\$5.50	\$6.50
3-frame nucleus, with untested queen --	7.50	8.50



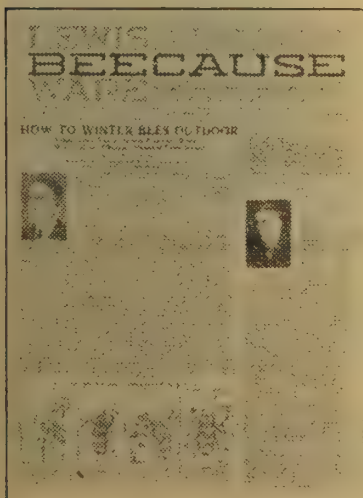
A rousing colony from a 3-frame Modified Dadant nucleus.

Full Colonies of Bees.

For those who do not wish to bother with nuclei or package bees, the full colony is very desirable. It can be shipped by express and it is only necessary to remove the screen, put a cover in its place and allow the bees freedom at the entrance. The colony goes to work at once and, under favorable conditions, will do as well as though it had not been moved.

Prices of Full Colonies with Untested Queens.

10-frame Langstroth -----	\$15.00
Modified Dadant -----	18.00



Ask for your copy if you do not get it.

The BEECAUSE is mailed free several times a year to users of Lewis "Beeware," to assist them in securing greater returns from their bees through the adoption of better methods. When you buy "Beeware" request to have your name put on the BEECAUSE mailing list for the ensuing year.

Each issue contains practical information from expert beekeepers on timely methods of beekeeping management.

THE OLDEST BEE MAGAZINE IN THE ENGLISH LANGUAGE

Established in 1861



First and best in its field

52 pages each each month, profusely illustrated.

\$1.50 per year

Make Success More Certain

You cannot learn all of Beekeeping with your hands and feet

It is often harder to think or plan correctly than it is to do a day's work. You will find that most beekeepers you consider successful have been constantly helped in their work by the experience of others given in beekeeping books and journals.

The American Bee Journal gives complete and dependable information on all important beekeeping subjects, both practical and scientific.

It is hard to point out just what help it excels in, since every kind of article receives its measure of praise. A vote for the best would probably go to the marketing helps, since the American Bee Journal is painstakingly concerned in this problem and its Crop and Market page is one of its greatest beekeeping aids.

Some build their profits from a study of "Editor's Answers." Others find new experiences made easy by the "Every Step" articles, telling just how to do things. The successful treatment of disease, methods of swarm control and of wintering, are real every-day beekeeping problems told by the fellow with the most noteworthy experience.

Each year the aim is to give a little better bee magazine than it has ever been possible to give before. When other bee papers **reduced** their size, the American Bee Journal **increased** its size from 32 to 52 pages. Each issue is now equal to 104 pages of most of the other bee magazines published.

If you are a subscriber you may agree with Mr. Keays:

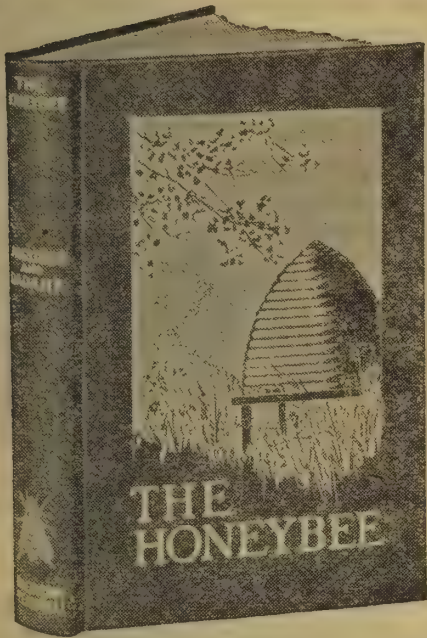
"I can safely say that one article alone has saved me fully \$1,000.00."

Turn over last year's pages and note the many items worth more than the subscription price to you. **Then renew your subscription.**

If you are not a subscriber:

Any beekeeper who is will tell you, in good plain English, just how much you miss. **Subscribe now.**

450 pages
Over 200 engravings
Cloth binding



Price \$2.50
Mailing weight 3 pounds
French, "L'abeille et la Ruche," \$2.50
Spanish, "La Abeja y la Colmena," \$2.50

The Honeybee

From the pens of three of the world's master beekeepers—Langstroth, Charles Dadant and C. P. Dadant. It is, by common consent, a classic in bee culture, containing not only the lifelong experiences of these most practical beekeepers, but also assembling all the most authoritative information on every phase of beekeeping.

It is used by many schools and colleges as a standard text book and is especially valuable because every subject is so cross indexed that all the matter pertaining to it can be found with great ease.



Langstroth



Charles Dadant



C. P. Dadant

Although the "Honeybee," since it was entrusted to the Dadants by Langstroth, has been revised by them several times and is now in its twenty-second edition, it still retains all of the important teachings of Langstroth, whose principles and discoveries form the basis of modern beekeeping.

AMERICAN HONEY PLANTS

By Frank C. Pellett.



"You can almost smell the flowers."

Is This True of You?

The publishers of this book are money-making beekeepers and, for quite a number of years, had several apiaries on prairie land which used to support an abundance of white clover and fall flowers. Because of changes in farming, drainage, and cultural methods, however, the honey crops grew less and less until the apiaries no longer paid. Something had to be done.

Some time was fruitlessly spent looking for new and profitable locations, and it was not until a thorough study was made of the distribution and amounts of honey-producing plants of their region that they were able to find suitable places. In fact, it was with the personal aid of the author of "American Honey Plants" that they at last found places for their apiaries which now pay good returns.

An experience like this shows the importance of such knowledge to beekeeping profits.

The new and enlarged edition of "American Honey Plants" is a handsome book, with 194 illustrations; 400 pages, 100 of them of entirely new information, written by America's leading honey-plant authority, Frank C. Pellett. It has been received alike by beekeepers, teachers and students as the only book to be considered in its field.

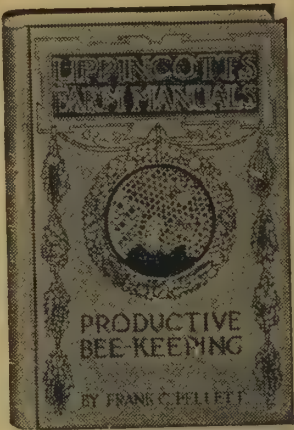
Cloth binding, 400 pages	\$3.00
First edition, 300 pages	\$2.50

PRODUCTIVE BEEKEEPING

By Frank C. Pellett.

Do you know the twentieth century methods? This book teaches not only how to make a beginning, but how to see it through. The methods found to be the best money makers by extensive honey producers. Direct information; every word is practical advice and information. The illustrations give, in pictorial form, all that is needed to explain the text.

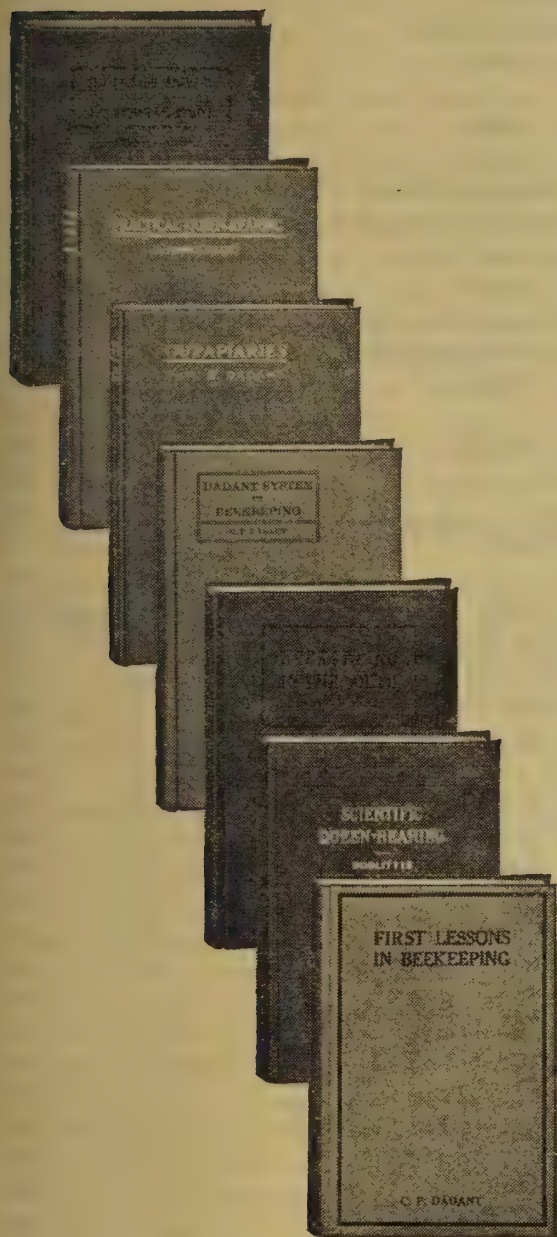
Third revised edition—price \$2.50.



OTHER BEE BOOKS

"Beekeeping" By E. F. Phillips	\$2.75
"Fifty Years Among the Bees"—Dr. C. C. Miller	1.50
"A B C and X Y Z of Bee Culture"—Root	3.50
"Beginners' Bee Book"—Frank C. Pellett	1.25
"Bee Primer"—C. P. Dadant	.15
"Queen Rearing Simplified"—Jay Smith	1.25

Worth While Books on Special Subjects



FIRST LESSONS IN BEEKEEPING

By C. P. Dadant

First Lessons! How Important they are!

Educators tell us that, in the study of any subject, the best teaching available should be concentrated on the first lessons to avoid the forming of error-making habits which no amount of later teaching will correct.

There is no one better qualified to teach beekeeping than C. P. Dadant. Beginners, and even experienced beekeepers will do well to seek his advice, as it is given in this book.

Attractive cloth binding; 167 pages. 178 illustrations.

Price, \$1.00. Mailing weight, 1 pound.

THE DADANT SYSTEM OF BEEKEEPING

By C. P. Dadant

The large hive explained.

Price \$1.00. Mailing weight 1 pound

PRACTICAL QUEEN REARING

By Frank C. Pellett

Queen rearing principles made clear
105 pages; 40 illustrations

Price \$1.00. Mailing weight 1 pound

A THOUSAND ANSWERS TO BEEKEEPING QUESTIONS

By Dr. C. C. Miller

One thousand of the best sifted from over 10,000 answers.

Price \$1.25. Mailing weight 1 pound

OUTAPIARIES

By M. G. Dadant

Covers equipment, management and locations
110 pages; 60 illustrations

Price \$1.00. Mailing weight 1 pound

BEEKEEPING IN THE SOUTH

By Kenneth Hawkins

A special study of the peculiar southern conditions.

Price \$1.25. Mailing weight 1 pound

SCIENTIFIC QUEEN REARING

By G. M. Doolittle

Doolittle's methods of artificial grafting

Price, cloth, \$1.00; leatherette, 50c. Mailing weight 1 pound

INDEX

Alley Traps	28	Honey Tanks	27
American Bee Journal	44	Inner Covers	20
Bees	42-43	Introducing Cages	39
Bee Books	45-47	Knives, Honey	26
Bee Brushes	33	Labels	40
Bee Escapes	28	Lantern Slides	41
Bee Feeders	28	Leaflets, Honey	40
Bee Gloves	33	Lewis Capping Melter	26
Bee Smokers	29	Lewis Markel Extractor	25
Bee Veils	30	Lithographed Pails	37
Bee combs rendered	10	Mailing Cages	39
Beeswax wanted	11	Metal Frame Shoulders	24
Bodies, Hive	19	Modified Dadant Hive	12-14
Books	45-47	Moving Pictures	41
Booklets, Honey	40	Nails	24
Bottoms, Hive	20	Nucleus Boxes	39
Bottles for samples	38	Observation Hive	40
Brood Frames	21	Oil Stove	26
Cages for Queens	39	Parcels Post	1
Cans	37-38	Queens	42
Cappings, Can	26	Queen Cages	39
Capping Melter	26	Queen and Drone Trap	29
Cartons	38	Queen Excluders	27
Cell Protectors	39	Rubber Stamps	40
Colonies	43	Sample Mailing Cases	38
Comb Foundation	3-9	Scales	24
Combs, Aluminum	36	Section Boxes	22
Correspondence Course	41	Section Fixer	31
Comb rendering	10	Section Holders	23
Covers, Hive	20	Section Presses	31
Division Boards	24	Section Slats	23
Embedder, Electric	32	Section Scraping Knife	24
Enameled Cloth	24	Selling Helps	40
Entrance Guards	29	Service Department	41
"Every Step" Booklets	41	Shipping Cases	35
Excluders, Queen	27	Signs	40
Extractors, Honey	25	Slotted Bottombar Frames	21
Feeders	28	Smokers	29
Fences	23	Smoker Fuel	29
Films, Bee	41	Spur Wire Embedder	32
Foundation Fasteners	31-32	Stationery	40
Foundation Comb	3-9	Staples	24
Foundation Cutting Box	31	Steam Generator	26
Frames, Brood and Shallow	21	Supers	18
Frame Shoulder	24	Super Springs	23
Frame Wiring Device	32	Swarm Catchers	33
Glass Jars	36	Sweet Clover	11
Gloves, Bee	33	Tanks for Honey	27
Hives	12-17	T Tins	23
Hive Bodies	19	Tin Packages	37-38
Hive Hooks	24	Tin Rabbets for Hives	23
Hive Scraper	33	Uncapping Can	26
Hive Tools	33	Uncapping Knives	26
Honey	36	Van Deusen Wax Tube	31
Honey Advertisements	40	Veils	30
Honey Extractors	25	Wax Extractors	34
Honey Gates	27	Wax-moth Fumigator	27
Honey Pamphlets	40	Wheelbarrow	28
Honey Pump	25	Window Placards	40
Honey Signs	40	Wire for Frames	32
Honey Stickers	40	Wired Foundation	4-7
		Zinc	27

DADANT & SONS HAMILTON, ILL.

Date _____ 192 _____

Please send by _____ **Freight, Mail or Express**

To Name _____

Postoffice..... R. F. D. No.....

Shipping Point.....Name of R. R.....

County..... Parcel Post Zone Number.....

State.....**Total Amount Sent, \$**.....

[illegible]

NOTE: In order to avoid delay be sure to give size and style of hive for which goods are wanted. Whether 8 frame or 10 frame and whether Dovetailed or some other kind.

Knowledge is Power---and POWER BRINGS SUCCESS !

Complete knowledge plus hard work—no man needs more to be successful in a big way. As a beekeeper you may work hard but—

Is your knowledge of beekeeping complete ?



Being truthful, you admit that it isn't, and you wish it were.

*What is the quickest way
to make it more complete?*

Answer this question for yourself—you cannot travel continuously nor far; you cannot go to school long; you haven't much time to spend at anything but hard work, for yourself and family. The success of most of those beekeepers whose advice counts for most is due to the fact that, to their own unceasing efforts, they have added

*The accumulated experience of others,
presented to them in the pages of bee-
keeping books and bee journals.*

This Truth Points the Way to Your Success.

Most of the conspicuously successful beekeepers of today help make THE AMERICAN BEE JOURNAL a high class publication. Also most of their names will be found on our list of subscribers.

In these statements we are absolutely honest, both in fact and belief, and to convince you of your need, we will send you the American Bee Journal 6 months for 50 cents, as a special trial offer.

Address

American Bee Journal, Hamilton, Illinois



The Dadant Apiaries

Remember that glorious feeling the first time you were praised by a fellow with a worth-while opinion? The praise, associated with the title of this page, which has been accorded the Dadant family gives us reason to be proud in the knowledge that the words have come to mean so much in the bee keeping industry. It is likely that a large measure of this is due to the fact that we have always championed the large hive and, as you will notice from the pictures, we use them extensively in our

The Home Yard, where bees have been kept for 60 years.

own apiaries. We have some bees in Langstroth hives, as a means of constant comparison, but find the cost of operating apiaries so equipped too great to suit us.

We thought you might enjoy seeing the picture of some of our apiaries. There are now seven outyards besides the Home Yard. Three of them are along the bluffs of the Mississippi, overlooking the bottom lands, which abound in fall flowers, yet near a fair hills to the east. We have prairies, located where together, forming good growth of fall flowers. Unfortun not dependable in our lo south for the best temper soil, although a limestone come acid. We are find courage the sowing of year sees some increase plant near our apiaries. in our crops, too.



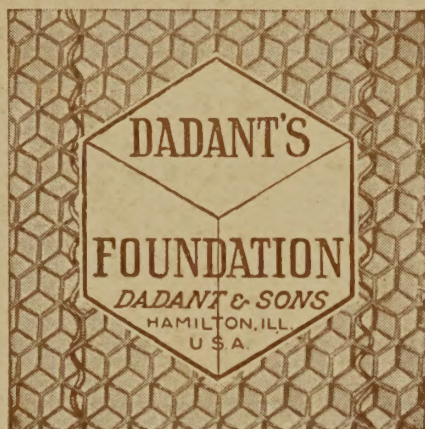
The Poland Yard in the prairie.

Some of the hives you see in the pictures have been in use a long time, since we have had bees in the family in a large way for over 60 years. The numbers of colonies have ranged from 250 to 750 at different times, with from seven to a dozen outyards which we have kept changing and moving to improve our pasturage as the years went by. In all some twenty-five or thirty locations have been occupied by our bees during this period.

Part of the pleasure in beekeeping to us has been the constant experimenting to obtain better results and to find better materials to do our work. Most of this has been passed on in various ways. It was by such means that we determined upon the use of the large hive, and we have never yet regretted the decision. The large crops of honey which we have been able to harvest have proven to us that we made no mistake.



The Sack Yard on the bluff of the Mississippi.



BUY WISELY

Is the Purchase of Bee Supplies only a Money Transaction?

You demand quality in what you buy, and Dadant and Lewis "Beeware" quality is an outstanding feature in a comparison of manufactured bee supplies.

But, of equal importance, is the fact that with the purchase of these quality goods is a guarantee of service and of continued friendly interest, making a comradeship whose goal is beekeeping success.

THE BEES
DEMAND
Quality
Supplies

